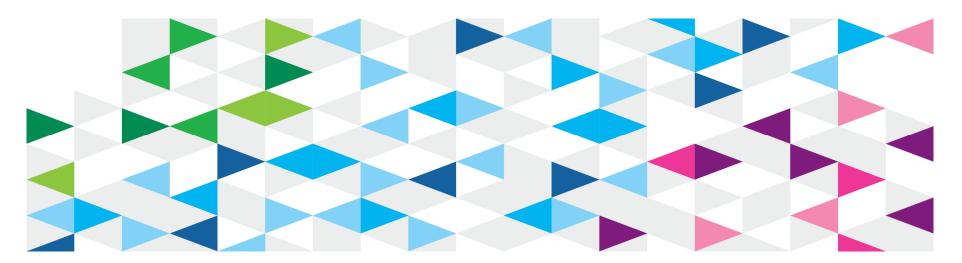
Take service agility, operational efficiency, and cloud enablement to a new level with CICS Transaction Server for z/OS V5.2



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Even though the world is awash in unstructured data, it's the transactional data that decision makers are focused on right now. And since the mainframe holds the vast majority of that data, it has a real role to play.



of world's corporate data resides or originates on mainframes

Systems of Engagement

With >10 billion connected mobile devices, you need a platform that provides...



Scalability

scale to handle the huge number of transactions

Reliability

deliver proven mobile end-toend integration

Security

ensure that your customer data is protected

Integrate with CICS on System z

Cloud platforms & integration





an IBM Company



Instant services, runtimes, and infrastructure for cloud based applications.

Integration with existing Systems of Engagement Clients using TXSeries who need to balance costs against growth.

TXSeries on Softlayer for cloud-style scalability Simplified system management and rapid application deployment.

On premise pattern based cloud deployment.

Systems of Engagement Meet Systems of Record



CICS TS V5 Vision



Service Agility

Runtime support for production ready web applications.

Integration with mobile applications.



Operational Efficiency

Increased system capacity and capability to achieve more with less.

Automatic control of critical resources using policies.



Cloud Enablement

Simplified system management and rapid application deployment.

On premise pattern based cloud deployment.

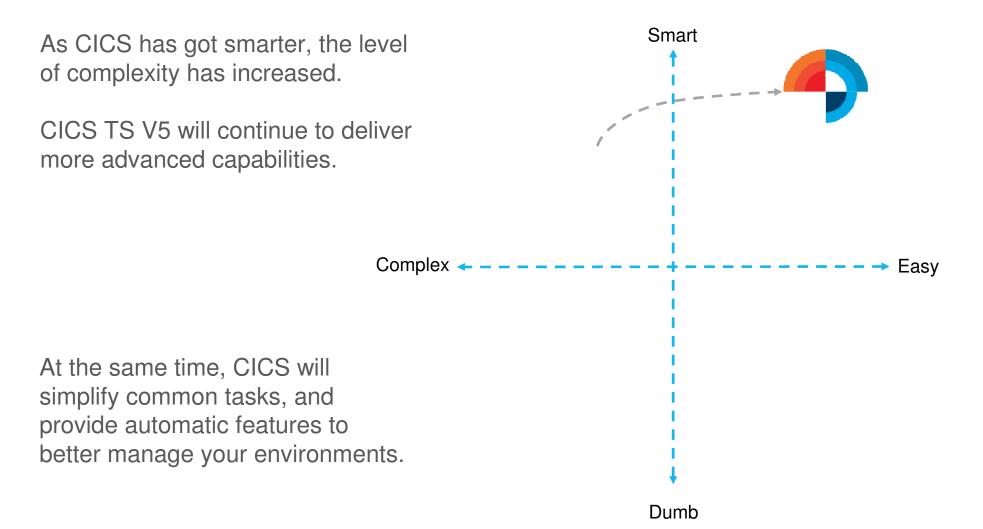


IBM CICS Transaction Server V5

is the premier enterprise grade mixed language application server



CICS Vision



CICS Transaction Server V5.1



Service Agility

Operational Efficiency

Cloud Enablement

A production-ready web container, built on IBM WebSphere Application Server Liberty Profile, for the deployment of lightweight Java servlets and Java Server Pages (JSPs). Greater capacity is delivered through significant vertical and horizontal scalability enhancements. Fewer regions can now run the same workload. First-class applications enable the creation of agile services from existing assets. First-class platforms enable applications to be rapidly promoted from development and test environments into production.

CICS Transaction Server V5.2

Service Agility. Operational Efficiency. Cloud Enablement



© 2014 IBM Corporation

CICS Transaction Server V5.2



Integrates mobile capabilities and broadens the web programming model, *without requiring additional middleware*



Support distributed security standards and automatically safeguard critical runtime resources, *without requiring additional system code*



Deploy and manage several versions of a multi-program application and run them concurrently, *without requiring additional regions*

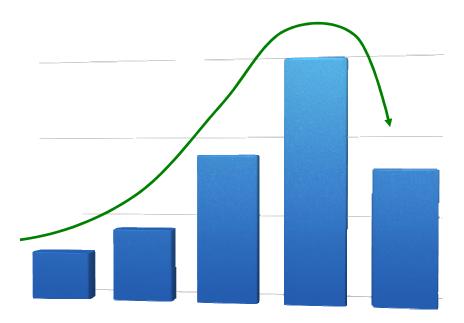


Various work on the Technical Foundation

Service Agility

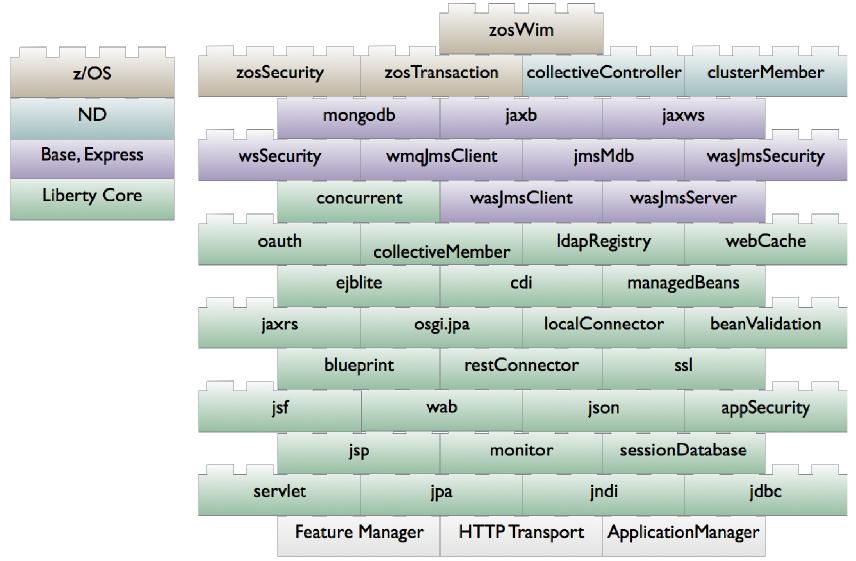
1

Integrates mobile capabilities and broadens the web programming model, *without requiring additional middleware*

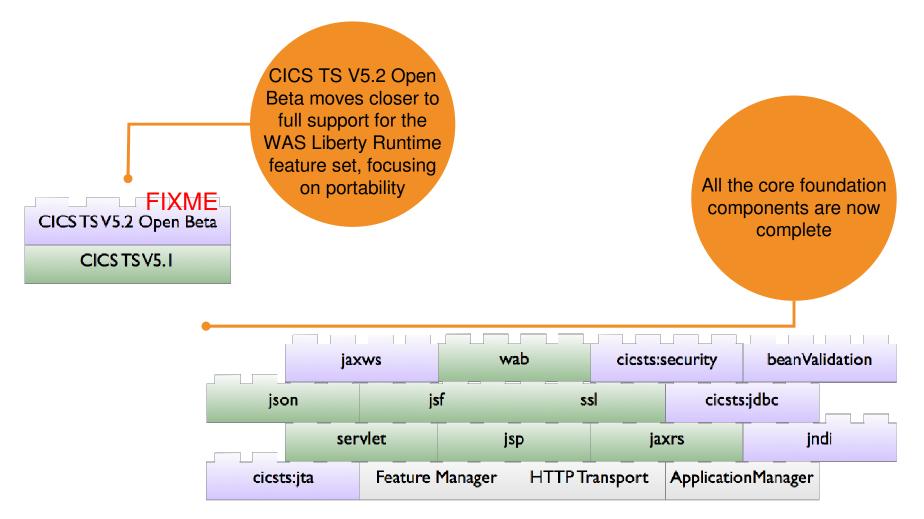


Number of systems

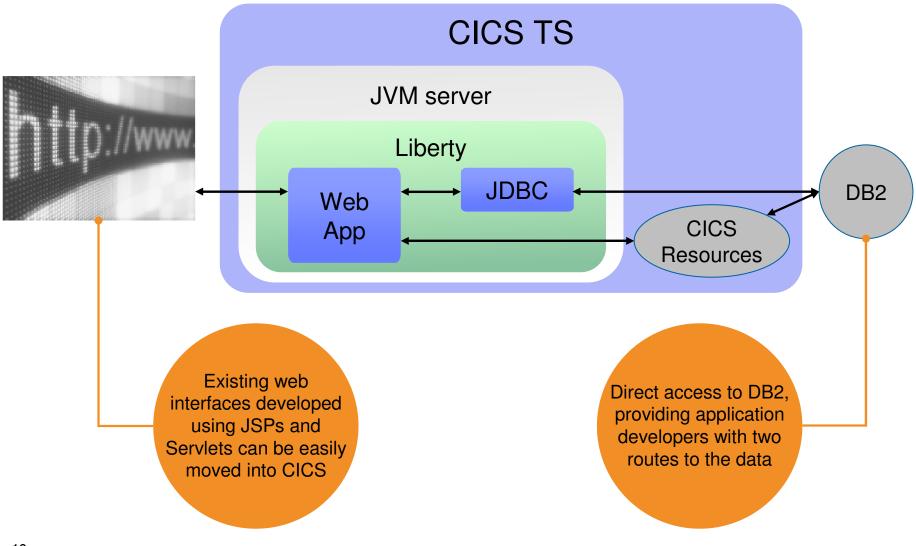
WebSphere Application Server Liberty Profile



WebSphere Application Server Liberty Profile within CICS TS V5.2



Liberty Web Apps in CICS TS V5.2



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Liberty scenario

Move JSP or Servlet presentation code into CICS Transaction Server



rver.examples.	wlp.jdbc.app	// Creat if (conn
rver.examples.	wlp.jdbc.bundle	J
rver.example	New	
Jle ⊂ ⊆app	Go <u>I</u> nto	
	Сору	
	Paste	
	Delete	
	Remove from Context	
	Move	
	Rename	
	Import	
	Export	
	Export Bundle Project to z/OS UNIX File	System
	Refresh	
	Clo <u>s</u> e Project	
	Close Unrelated Projects	

	EPPRGICH			0
	EPSECVIO			0
	EPSIGEV			0
	EPSYSDB2			0
	EPSYSDSM			0
	EPSYSTCL			0
	EPWTO			0
	JDBC			0
	LIBJDBC	New		0
	READSMAL	New from		0
	READSTAT			0
	TDQSWMSG	Open		0
	TESTTSQ	Install		0
	TRANQSET	Copy Ctrl+C Delete Delete	0	
	TSQTRST			0
*	WLPHELLO			0
	WLPJDBC			0



Step 1

Modify application data logic to make JCICS API calls or direct JDBC calls, if required



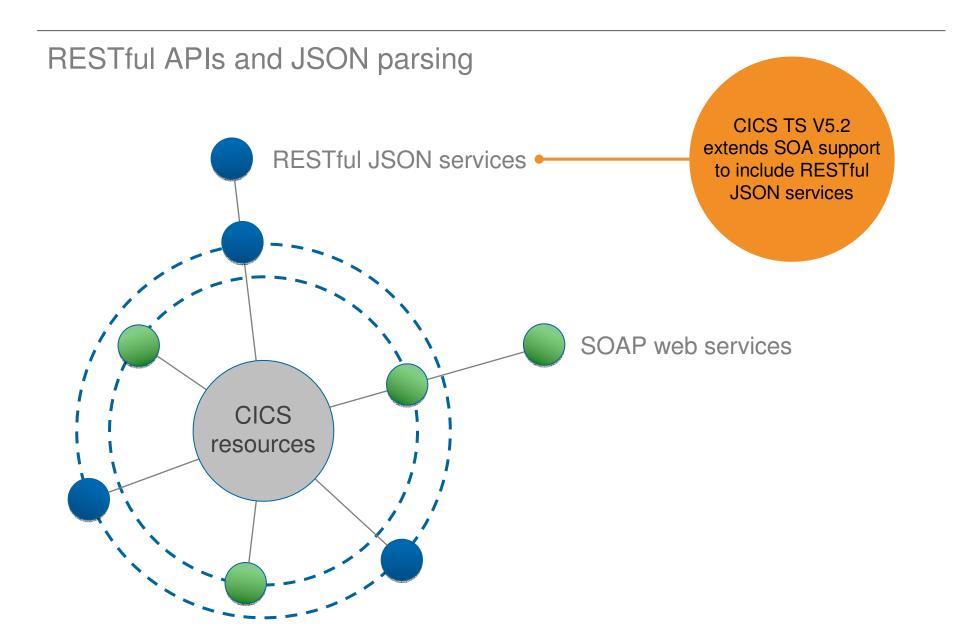
Step 2

Package application into a EBA for deployment into CICS Liberty



Step 3

Install CICS application into CICS Liberty Server and enable using the CICS Explorer



Mobile scenario

Connect directly to CICS from Worklight using end-to-end JSON





DFHLS2JS to generate the JSON artefacts for the target CICS service.



Step 2

Mobile developer uses JSON schema to build a Worklight adapter.



Step 3

Frontend mobile developer calls the Worklight adapter which calls the service hosted in CICS.

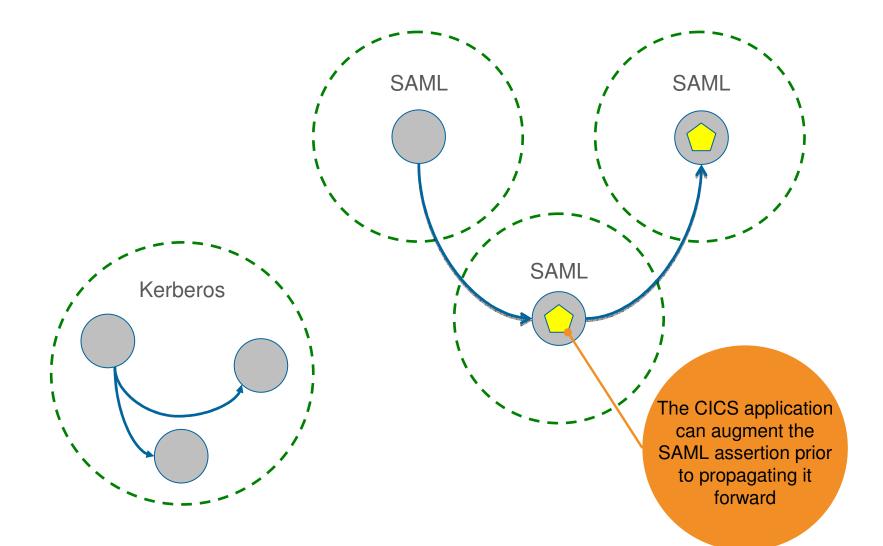
Operational Efficiency



Support distributed security standards and automatically safeguard critical runtime resources, *without requiring additional system code*

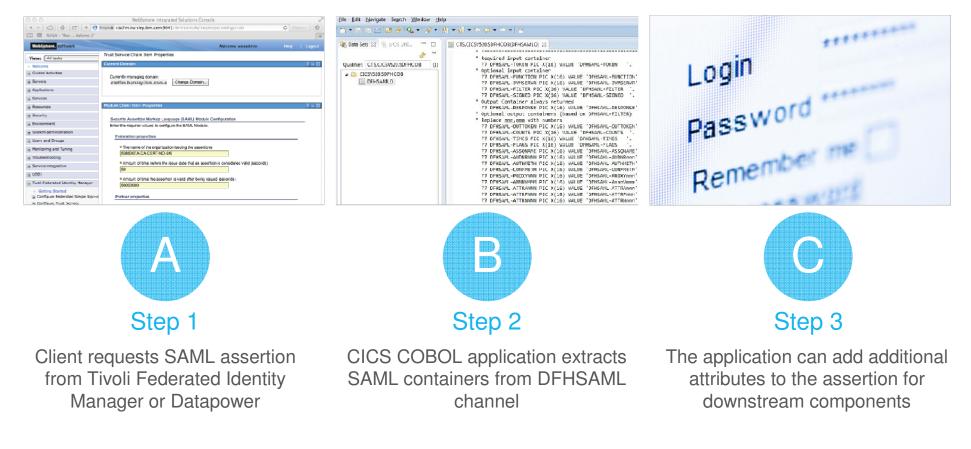


SAML and Kerberos security

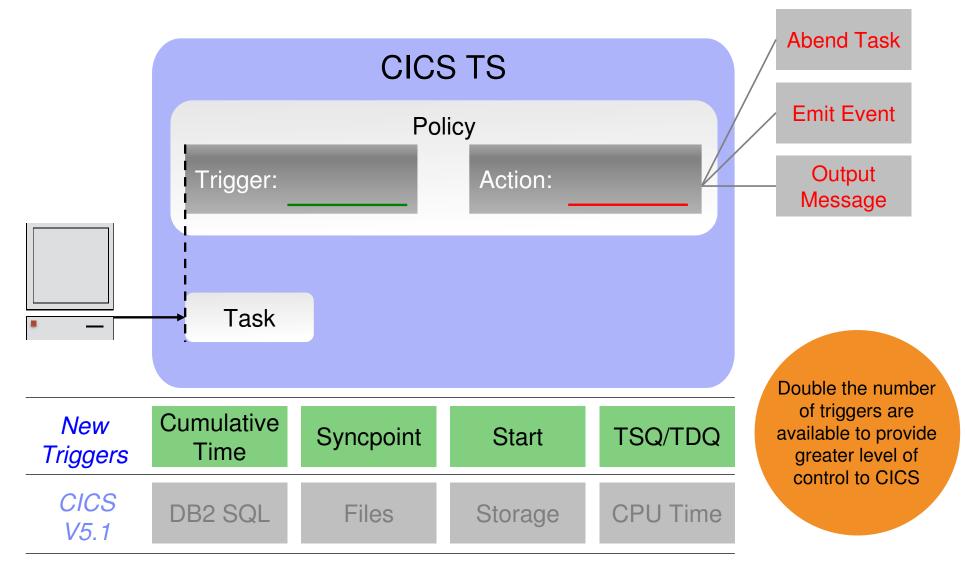


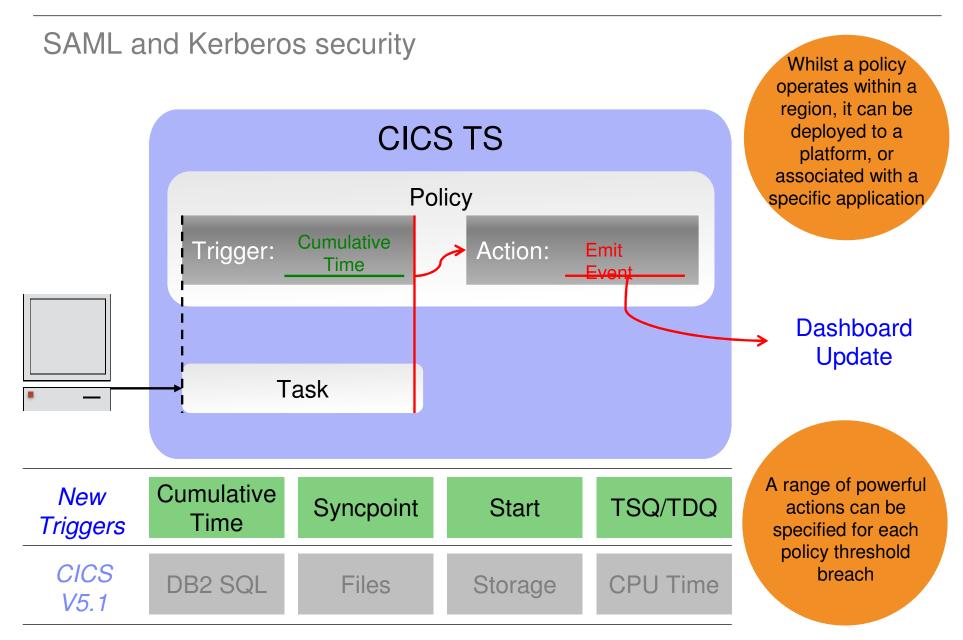
SAML Security scenario

A CICS application developer writes a COBOL program with behavior that's dependent on the SAML security token



SAML and Kerberos security





Policy scenario

Define a policy to trigger an event when an application consumes too much total elapsed CPU time

Reate Policy Definition				
Add a rule Add a policy r	rule to define what action is taken when a task exceeds a specified condition.			
Policy Inform	ation			
Name:	RunAwayProtection (is also the bundle part name)			
Description:	When a program runs away with links act upon it			
Rule Informat	tion			
Name:	Program_requests_over_10			
Description:	en a program links more than 10 we would want this to update our status dashboard			
What is the co	ondition that triggers the rule?			
Type:	Storage Item: Link command			
	Storage request =			
	Program request			
	Database request -			
Operator:	Greater Than Value: 10 Unit: No unit			

Add region ty: apply to all region Add regions ty: Add regions ty:	CICS Bundles:	i can perform the
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	STMOBILADEFS (1.0.0)	C Duadlas
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Step 1

Define the policy thresholds and trigger action that CICS should take



Associate the policy with the appropriate platform or application and deploy



Step 3

When the threshold is breached, CICS triggers an event, updating an operations dashboard

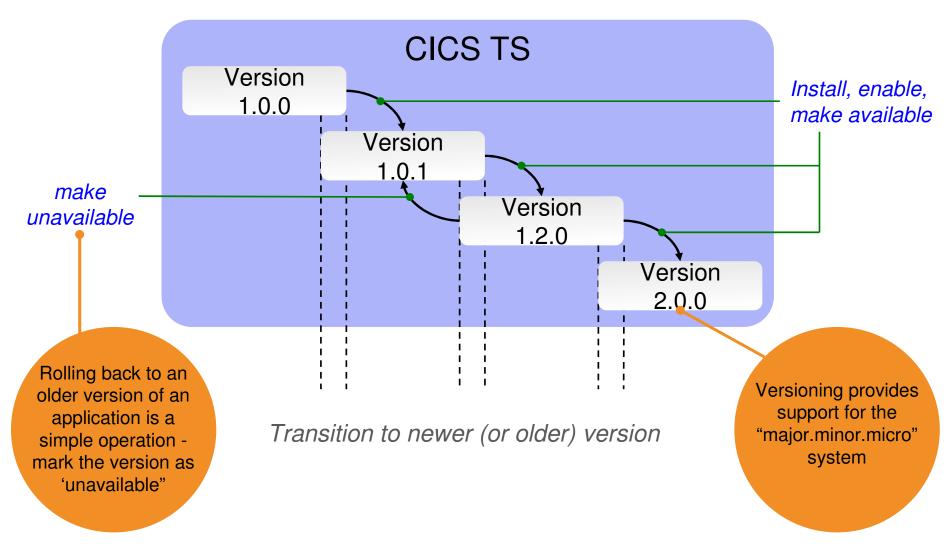
Cloud Enablement



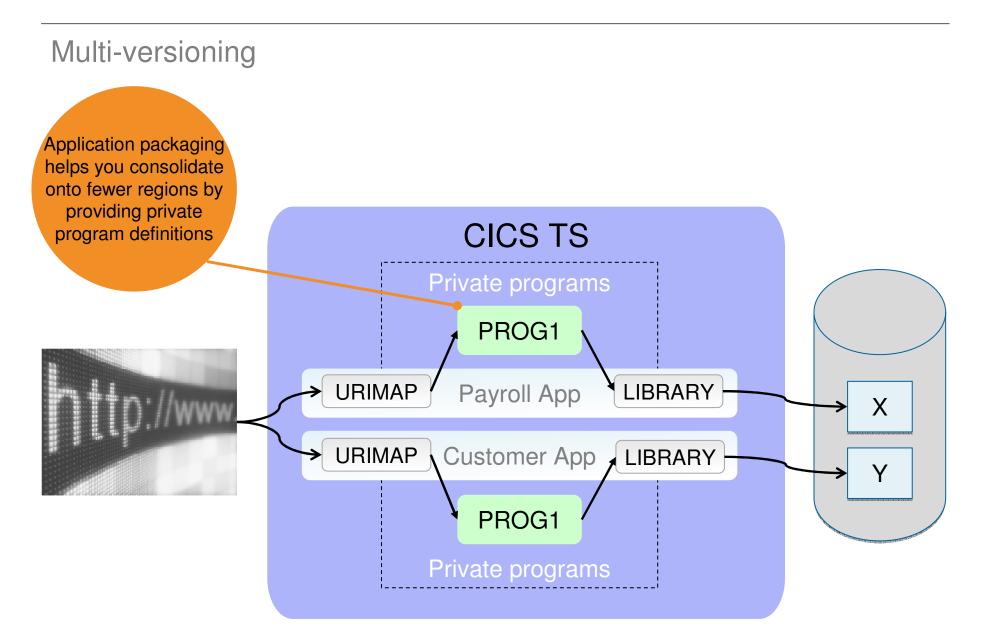
Deploy and manage several versions of a multi-program application and run them concurrently, *without requiring additional regions*



Multi-versioning

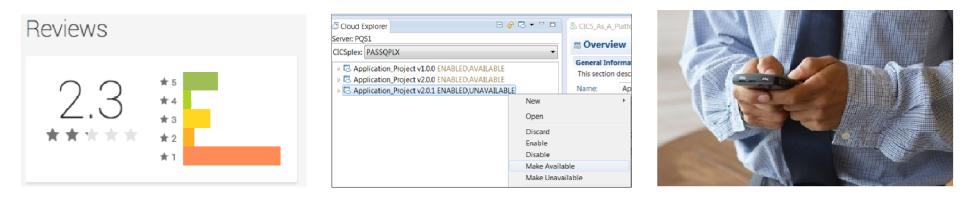


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Multi-versioning scenario

A bug has been found and an urgent fix is required immediately





Step 1

After fixing the bug in the code, repackage it with a new micro version number



Step 2

Once installed, switching to a new version of the application is simply a case of making it "available"



Step 3

CICS takes care of moving clients to the new version of the application across all regions within a platform

Solution Packs for CICS and z/OS – convenience and affordability

Four Tools Solution Packs

CICS Optimization Solution Pack for z/OS V5.2

Quickly optimize performance and availability of CICS systems and applications with CICS Interdependency Analyzer, CICS Deployment Assistant, CICS Performance Analyzer, CICS Configuration Manager

CICS Modernization Solution Pack for z/OS V5.1

Understand deployed CICS application and system resources, connect from non-mainframe devices, and create CICS infrastructure to support the increased workload with CICS Interdependency Analyzer, CICS Deployment Assistant, CICS Transaction Gateway for z/OS

IBM Problem Determination Solution Pack for z/OS V1.1

Cost effective problem analysis for z/OS subsystems and languages with both GUI & 3270

interface with File Manager for z/OS, Fault Analyzer for z/OS, Debug Tool for z/OS, Workload Simulator for z/OS and OS/390, Hour Glass, Data Set Commander

IBM Problem Determination Testing Solution Pack for z/OS V1.1

Reduce testing time, improve application reliability and user diagnosis capabilities, and improving user's ability to regulate and monitor testing activities with Debug Tool for z/OS, Workload Simulator for z/OS and OS/390, Hour Glass

Upgrade from standalone products using trade-ups

CICS TG for z/OS V9.1 open beta

Mobile integration and more

What's in it?

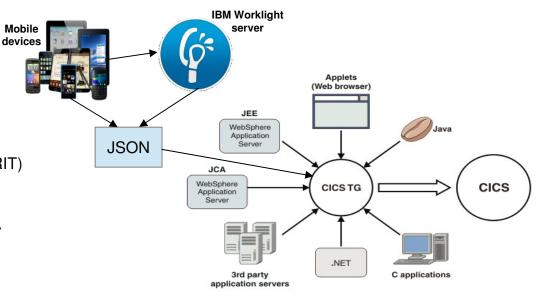
- Mobile integration (JSON web services)
- Access to channel data for request monitoring
- Systems management for IPIC connections
- IPIC heartbeat
- SSL connectivity for .NET
- Integration with IBM Rational Integration Tester (RIT)

Open beta available Friday, April 25th 2014

- Built upon the V9.0 foundation
- Not for production use
- Time limited
- ► The CICS TG plug-in for CICS Explorer V5.2 is also available

Try it out and tell us what you think at

ibm.com/cics/openbeta



Resources

- English web pages updated for V5.2 translated versions will appear within 3 months
- Updated datasheets on product web pages <u>zip</u>
- Announcement letters CICS TS <u>link</u>, CICS Tools <u>link</u>
- Launch presentations and replays CICS community CICS V5.2 launch wiki page
- Analyst report: IBM CICS Tools: Discovery and Optimization for the Next Generation link
- Prezi: <u>Threadsafety & Consolidation extracting optimum performance from CICS</u>
- Social media
 - Catch up with CICS on Facebook at <u>CICS Hursley</u> or <u>WebSphere and CICS Support</u>
 - Check out our CICS videos on YouTube
 - Follow IBM_CICS on Twitter
 - Track multiple social channels by using the CICS Social Media Aggregator.
 - Interact with CICS development on <u>CICSdev</u> and the <u>CICS and WebSphere Support Blog</u>
- Subscribe to
 - CICSbuzz http://www-01.ibm.com/software/htp/cics/enews/
 - Quarterly Support Newsletter for CICS Transaction Server and CICS Tools

IBM Resources

- Launch presentations and replays CICS <u>community</u> <u>CICS V5.2 wiki page</u>
- CICS V5.2 Messaging Guide to be available on wiki
- Impact presentations with CICS V5.2 content to be available on wiki
- Sales plays and kits (current at V5.1 will be updated for V5.2)
 - CICS New Workload link
 - CICS and PD Tools link
 - CICS TS link
 - CICS Tools link
 - PD Tools Family master sales link