

16370

CICS Project Opening and Project Update

Dave Jeffries – CICS Director

Andy Bates – CICS TS Product Manager

Insert
Custom
Session
QR if
Desired.



#SHAREorg



SHARE is an independent volunteer-run information technology association that provides **education, professional networking and industry influence.**



Can CICS really be a Cloud?



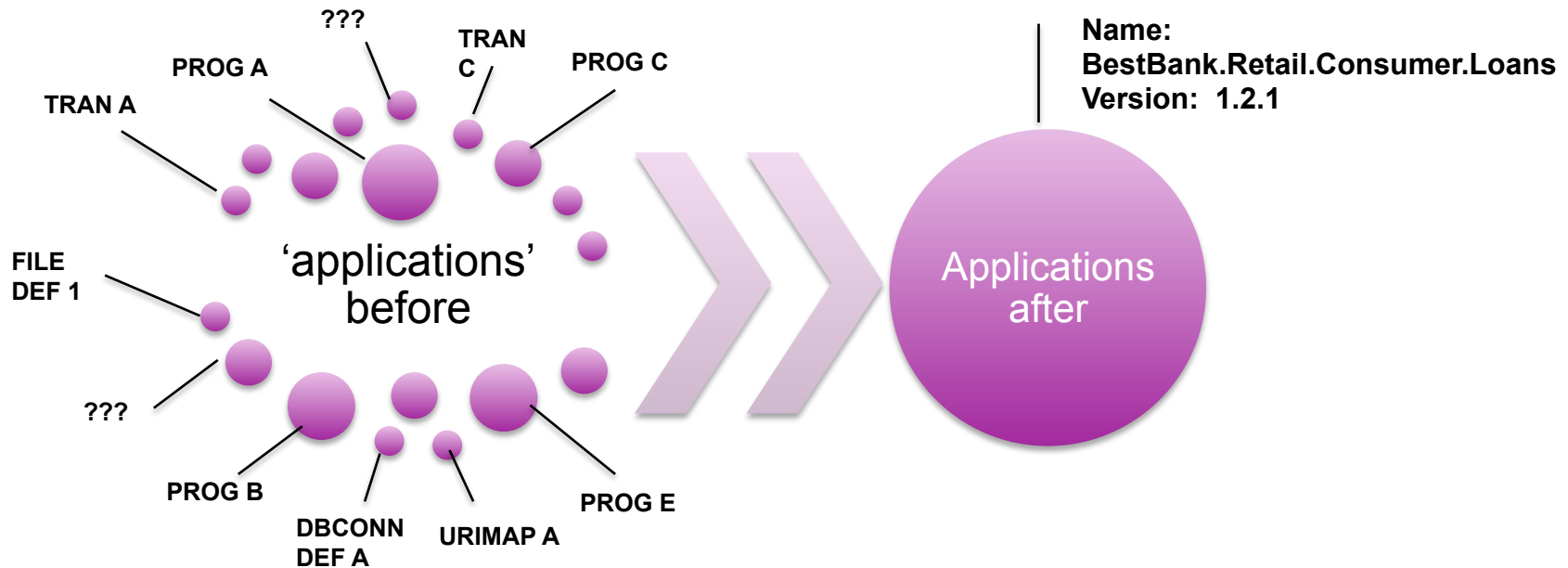
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What are you waiting for?

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Cloud & DevOps

Packaging CICS resources into an application bundle means they can be deployed, managed, and monitored throughout the lifecycle as a single entity

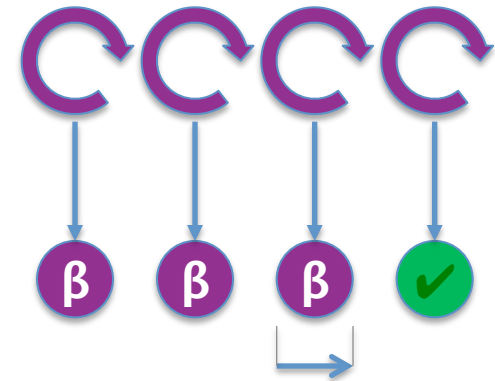
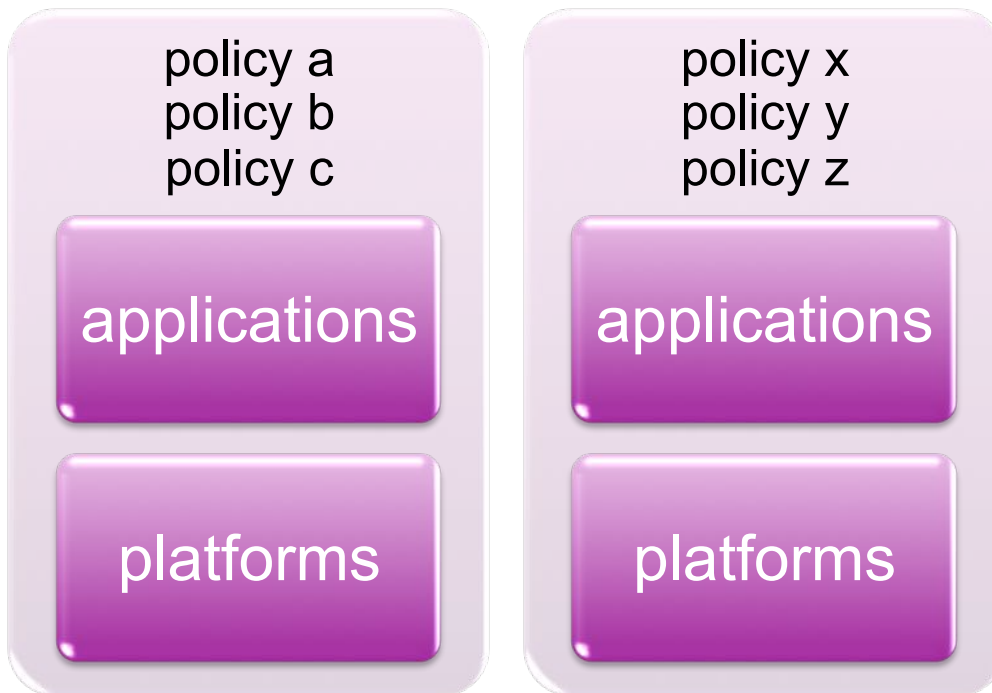


The Forecast is Cloudy...

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Cloud & DevOps

Applications, running on Platforms, managed according to a set of Policies, and deployed using DevOps



An IBM company

...with a Strong Chance of DevOps

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Cloud & DevOps



*The Forecast is Cloudy
with a Strong Chance of DevOps*

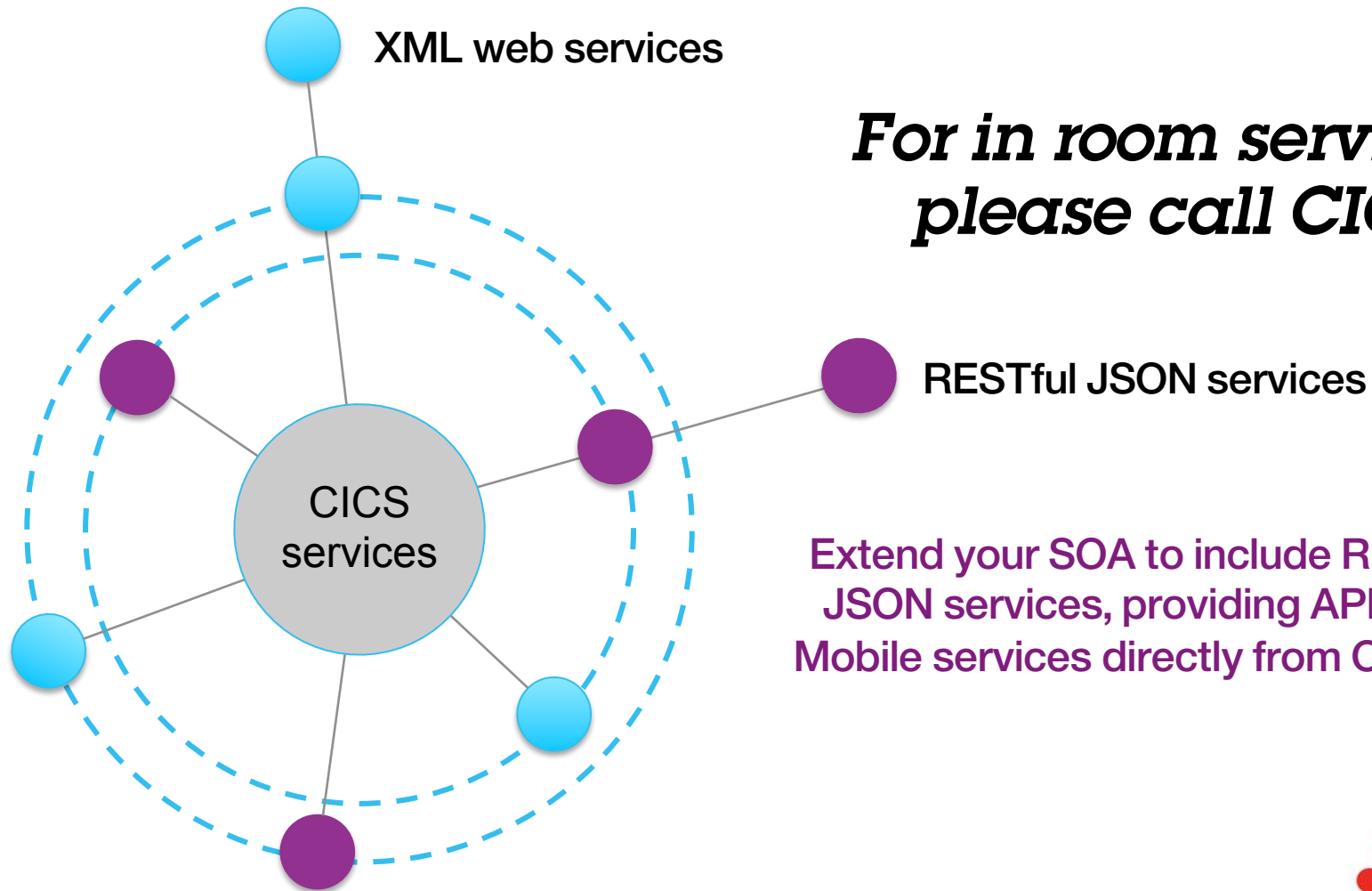
Throw away your umbrellas - CICS reigns

CICS Cloud & DevOps : Key SHARE in Seattle 2015 sessions

- | | | |
|--------|------------|---|
| #16406 | Mon 3:15PM | What's New In the IBM Problem Determination Tools |
| #16567 | Wed 4:30PM | Five CICS Multi-Versioning Scenarios that Reduce the Risk of Change |
| #16563 | Thu 1:45PM | CICS Cloud + CICS DevOps = Agility ² |
| #16571 | Thu 3:15PM | CICS Policy Based Management—There's a New Sheriff in Town |
| #16522 | Thu 3:15PM | IBM DevOps Solution: Collaborative Development |

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Mobile & APIs

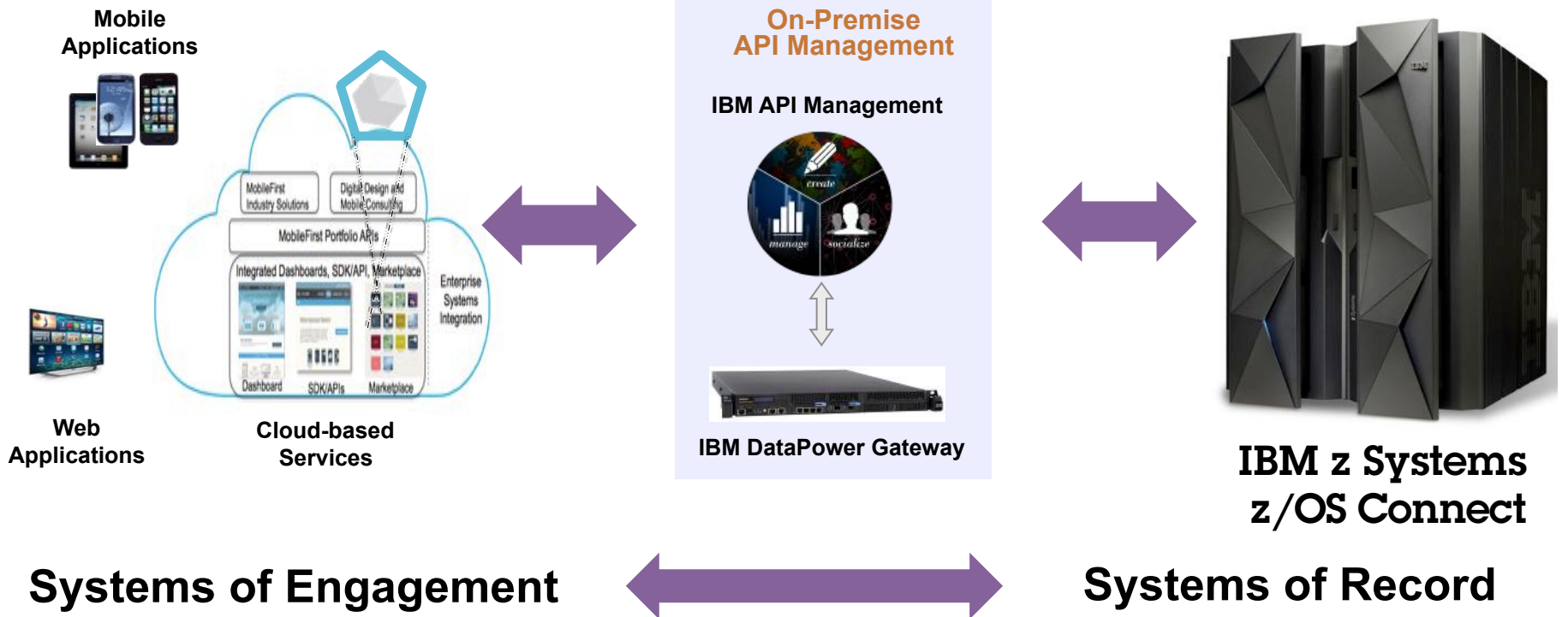


*For in room service,
please call CICS*

Extend your SOA to include RESTful
JSON services, providing APIs and
Mobile services directly from CICS TS

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Mobile & APIs



z/OS Connect does exactly what it says on the tin

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Mobile & APIs



*1 Billion Smartphones a Year
and Counting...*

Don't be an Angry Bird – let CICS make you 'appy

CICS Mobile & APIs : Key SHARE in Seattle 2015 sessions

- | | | |
|--------|-------------|--|
| #16564 | Mon 1:45PM | 1 Billion Smartphones a Year and Counting... How is Your CICS Connected? |
| #16380 | Tue 1:45PM | z/OS Connect: Opening up z/OS Assets to the Cloud and Mobile Worlds |
| #16556 | Wed 10:00AM | CICS and the New SOA: What You Don't Know Might Help You |
| #17170 | Wed 1:45PM | VSP: CICS Integration & Optimization: Tales from the Trenches |

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Java & Liberty



New IBM z13 delivers:

- New 5.0 GHz 8-Core Processor Chip
- 480Mb L4 cache to optimize data serving

New z13 features tailored and co-designed with Java include:

- Simultaneous Multi-Threading (SMT)
- Single Instruction Multiple Data (SIMD)
- Cryptographic Function (CPACF)
- New Instructions

***Up to 50% improvement in
throughput for generic
applications***

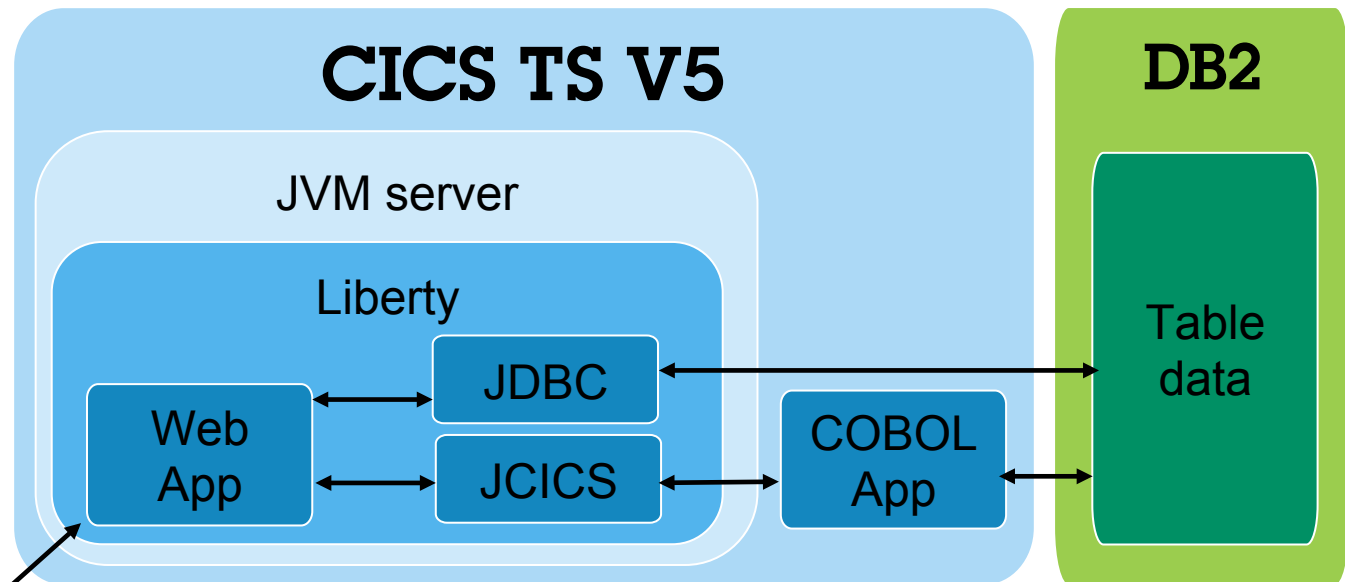
***Up to 2X improvement in
throughput per core for security
enabled applications***

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Java & Liberty

CICS TS V5.2 supports more than 25 WebSphere Liberty Profile Features, including:

- Servlets
- JSPs and JSFs
- z/OS Connect
- JAX-RS & JAX-WS
- JSON & SSL
- JDBC & JTA
- JMX
- Blueprint
- OSGi



What will you do with the worlds most advanced mixed language application server?

Complete your session evaluations online at www.SHARE.org/Seattle-Eval

Java & Liberty

Can I
CICS it?

*The world's most advanced mixed
language application server*



The mainframe is not a coffee machine,
but it does do awesome Java

CICS Java & Liberty : Key SHARE in Seattle 2015 sessions

- | | | |
|--------|------------|--|
| #16562 | Mon 3:15PM | Liberté, Égalité, Fraternité – a Mini CICS and WebSphere Revolution |
| #16381 | Tue 3:15PM | WebSphere Liberty Profile and T-WAS - What's New? |
| #16566 | Wed 3:15PM | Raising Healthy Java apps in CICS using the Java Health Center |
| #16569 | Thu 1:45PM | Dynamic Business Rules and Other Things You Didn't Think CICS could do |

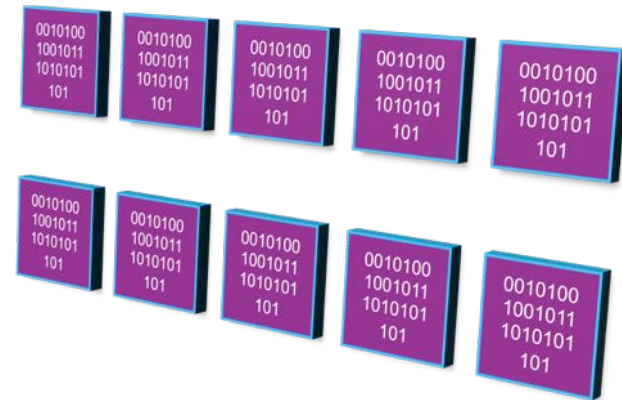
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Cost Optimization



IBM Benchmark results:

- Consolidate 30 regions down to 10
- Decrease CPU usage by 10%
- Reduce the management burden by 2/3
- Maintain the same workload



Greater capacity enables cost savings through consolidation

Cost Optimization



CICS Tools for z/OS

Essential tools for improving ROI of CICS TS investments

“We’ve embraced Threadsafe functionality to help us cut our CPU usage by 550 million instructions per second, or about US\$440K in annual operating expense...”



PD Tools for z/OS

#1 ranked family of problem determination tools for z/OS

“We've increased programmer productivity by 10 percent and cut development costs. Not only that, but we've experienced significant decreases in the number of transaction failures within our applications.”



***Optimize, Diagnose and Modernize
your z/OS resources***

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Cost Optimization



Show me the Money!

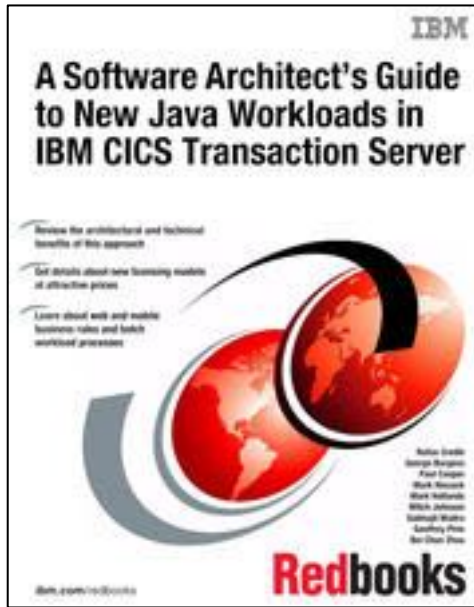
CICS: Cost Improvement Charmingly Simple

CICS Cost Optimization : Key SHARE in Seattle 2015 sessions

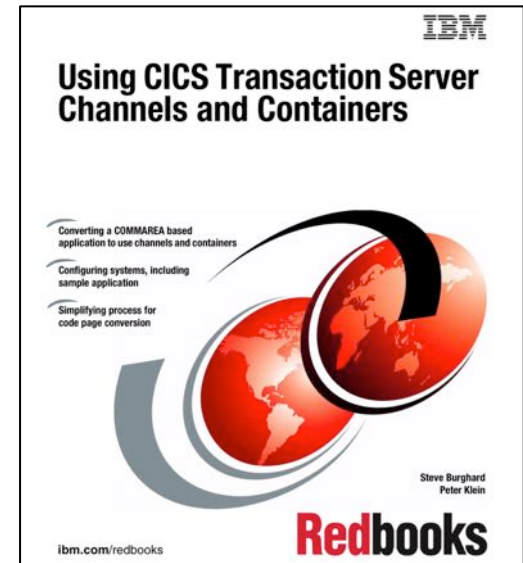
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|--------|-------------|--|
| #16565 | Tue 10:00AM | CICS TS V5 Performance Improvements that you Definitely Don't Know About |
| #16548 | Tue 11:15AM | CICS Performance and Tuning 101 |
| #16551 | Tue 3:15AM | CICS Extreme Performance |

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Generation z



A few new or updated IBM Redbooks, published in the last 6 months



New skills are not just for new hires!



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Generation z



Calling all new mainframers

Skill up and work some mainframe magic

Generation z & Core Skills: Key SHARE in Seattle 2015 sessions

- | | | |
|--------|-------------|---|
| #16519 | Mon 4:30PM | AD Tools: RDz, RTCz and the RTCz ISPF Client Hands-on Lab |
| #16377 | Tue 3:15PM | Modernizing CICS - Hands-on Lab (double session) |
| #16733 | Thu 11:15AM | Mainframe Skills - the Myth and the Reality |
| #16572 | Fri 10:00AM | You Asked, We Delivered: Workload Management in the CICS Explorer |

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CICS Certification



IBM Certified System Programmer - CICS Transaction Server V5.2 for z/OS

IBM Certified Application Developer - CICS Transaction Server V5.2 for z/OS

IBM Professional Certification



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What's next?

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Open for Business



IBM CICS Transaction Server V5.3 open beta



Service Agility

Enhanced support for Java and the WebSphere Liberty profile



Operational Efficiency

Performance optimizations, enhanced metrics and additional security



Cloud with DevOps

New cloud and DevOps support to automate CICS deployments

#16568 Mon 4:30PM

The Future of CICS is Closer than You Might Think

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Open for Business



IBM CICS TS V5.3 open beta e-book

CICS TS V5.3 open beta : Service Agility

Enhanced support for Java and the WebSphere Liberty profile

Additional Liberty profile features

Enhanced interoperability

Simplified management

Enhanced Java SE support

The CICS TS V5.3 open beta offering also includes a technology preview for Java applications in a Liberty profile JVM server and non-Java applications to call each other using standard CICS API calls. This technology preview enables:

- Java applications to use the standard JEE Connector Architecture to invoke CICS programs in any supported language.
- Non-Java CICS programs to issue an EXEC CICS LINK to call a Java application running in a Liberty profile JVM server.

Additionally, the Liberty z/OS Connect feature is now supported by the V5.3 open beta offering*. This provides RESTful APIs and accepts JavaScript Object Notation (JSON) payloads between CICS, mobile devices, and environments.

* Also available in CICS TS V5.2 via APAR PI25503.

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CICS TS V5.3 open beta : Operational Efficiency

Performance optimizations, enhanced metrics and additional security

Web service optimizations

Performance improvements

Enhanced metrics

Additional security options

Web services are one of the most popular methods of interacting with applications. The CICS TS V5.3 open beta offering delivers a number of significant optimizations in this area.

The pipeline processing of HTTP requests has been improved, reducing the need for an intermediate web attach task (CWXN transaction) in the use cases. This will reduce the CPU and memory overhead for most SOAP and JSON-based HTTP CICS web services.

This optimization can also be used for inbound HTTPS requests, where support is provided by the Application Transparent Transport Layer (AT-TLS) feature of IBM Communications Server. CICS TCP/IPSEF resources can be configured as AT-TLS aware to obtain security information from AT-TLS.

HTTPS implementations that use CICS-provided SSL support still require a CWXN transaction. However, multiple TCB switches have been added to these scenarios. Therefore, these implementations should also see performance improvements.

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CICS TS V5.3 open beta : Cloud with DevOps

New cloud and DevOps support to automate CICS deployments

Automated builds

Scripted deployments

UrbanCode Deploy support

Enhanced cloud enablement

IBM UrbanCode Deploy orchestrates and automates the deployment of applications, middleware configurations, and database changes. An updated CICS TS beta plug-in for UrbanCode Deploy supports the deployment of CICS applications as part of these orchestrations.

Using UrbanCode Deploy, multiple deployment steps can be coordinated in a single action. Deployment processes can be reused for similar applications and environments, such as development systems or more tightly-controlled test and production environments.

The CICS TS beta plug-in for UrbanCode Deploy provides functions for installing and removing resources, NEWCOPY and PHASEIN for programs, and performing a pipeline scan. Batch utilities, like DFHDPLOY, can be reused using the z/OS utility plug-in.

An updated version of the UrbanCode Deploy plug-in for CICS TS V4.1 and later is available to download from the UrbanCode Deploy plug-in website. Visit <https://developer.ibm.com/urbancode/plugin/cics-ts/>

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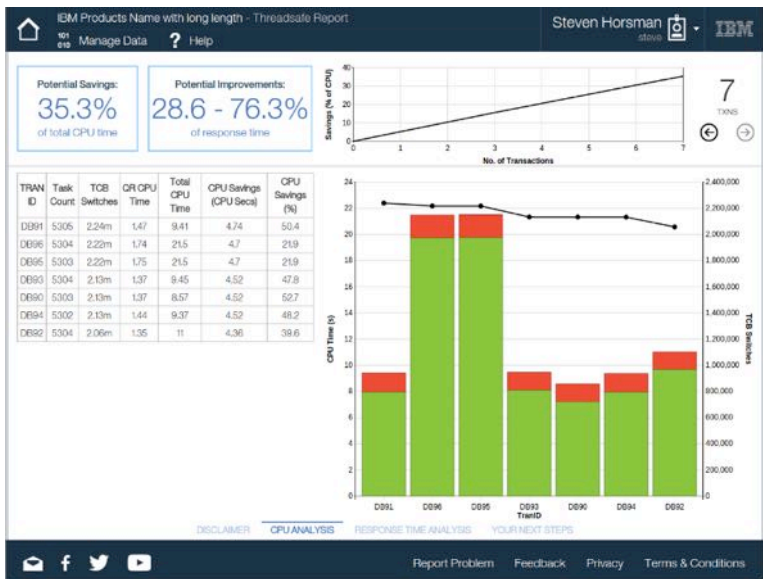
ibm.biz/cics53beta

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Open for Insight

IBM CICS Operational Insights open beta



New Cloud based Service to identify opportunities to tune your CICS

Understand your operational characteristics to target improvements

Upload a snapshot of operational data and get a Threadsafe Assessment

Free of charge during open beta

ibm.biz/cicsoibeta

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Open for Testing



IBM CICS Transaction Gateway V9.2 open beta

Enabling virtualized testing of CICS TS applications

- Front-end application testing without impacting mainframe MIPS
- Continuous integration testing for all remote CICS TG applications
- Allowing selective pass-through to live CICS servers

Building on the capability released in CICS TG V9.1, including:

- Mobile (JSON web services) connectivity through to any CICS TS or TXSeries

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Open for Business

Announced! TXSeries for Multiplatforms V8.2 (AIX and Linux x86)



- **Significant enhancements for Performance**

- Up to 5x faster and 50% less memory consumption for large data exchanges over IP using containers & channels
- Up to 40% faster performance for Micro Focus COBOL based applications
- Improved transaction throughput for applications written in Java
- Up to 40% improvement for batch applications with SFS



- **Application Development Enhancements**

- New COBOL compiler support on Linux with COBOL-IT
- Support for Visual COBOL compiler runtimes on all platforms
- Enable IBM COBOL application developers to simultaneously debug CICS applications

ibm.biz/TXSeries82Announce

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What skills issue?

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#1 – Hire Good Young People

And help them become great!



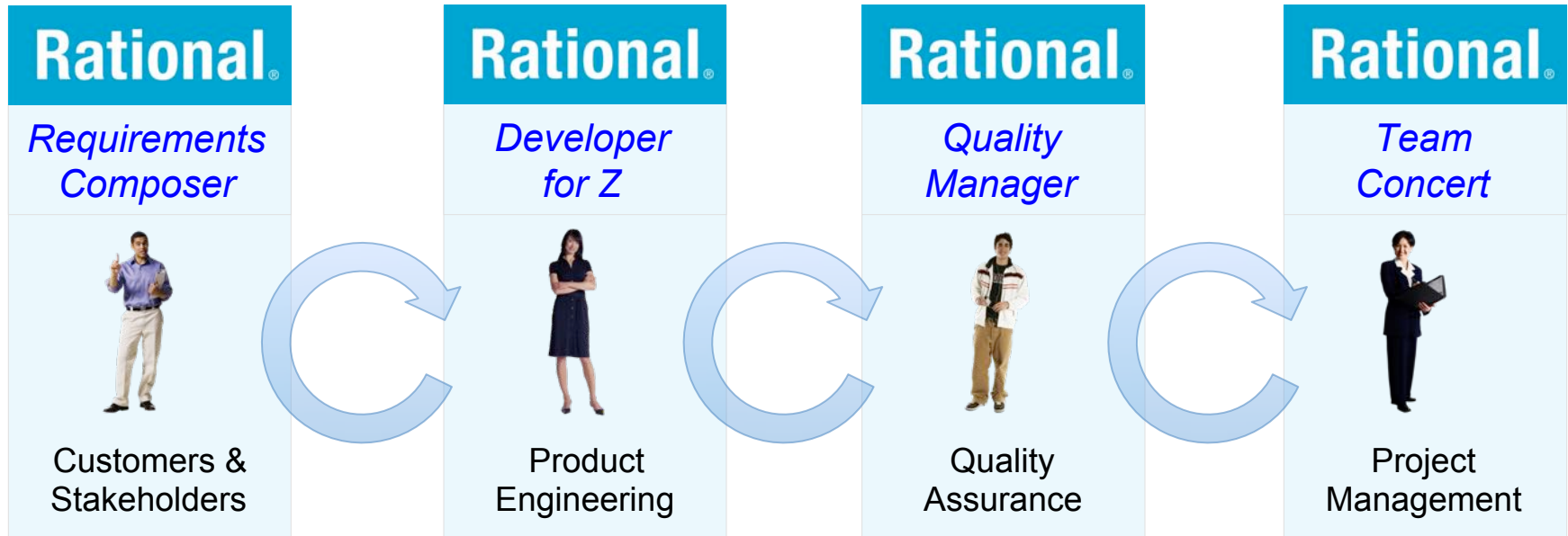
<https://www.youtube.com/watch?v=pKNJ-KC3vvo>

- **Hire people with the expectation they will be great in a few years**
 - Requires planning – can't just use immediately on the toughest problems
 - Requires commitment - to both training and progression
- **Learn from them at least as much as you teach them!**
 - New graduates look at the world in new ways – use this!
 - Many CICS innovations have come from new hires saying “I wonder if...”

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#2 – Give them modern tools and processes

With tools that help them innovate



- **CICS TS Development make extensive use of modern tooling**
 - We are experimenting with IBM Watson for PMR analysis
 - We also use a good amount of open source, where it makes sense



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#2 – Give them modern tools and processes

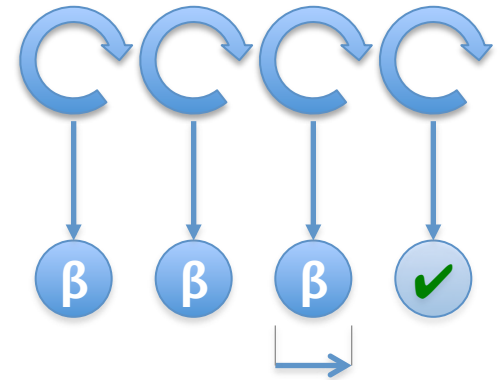
Processes that smooth the way and don't get in the way

- **Rational Team Concert**

- Project planning, tracking, dashboards, RFE's
- Source code development via EPICS and stories

- **Stories**

- Sized in story points by whole team
- Planned into 4 week iterations
- Tracked by story point burn-down charts
- Closed when defects fixed, tests automated and 100% successful



- **Testing**

- Based on Agile Test Quadrants (Unit, FV, User, ST)
- Collaborative test planning
- Automated tests run daily on continuous delivery of code
- Customer scenario testing (CiP) - product integration and multi release

- **Continuous delivery**

- Daily builds, weekly iterations (increments), monthly betas

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#3 – Empower them to make a difference

Design Thinking practices fuel creativity and enthusiasm



Hills

- Focus on problems and outcomes for users, not feature lists
- Cross-functional teams define, deliver and promote solutions



Sponsor Users

- Provide real domain expertise
- Ensure design for real target users, not imagined needs



Playbacks

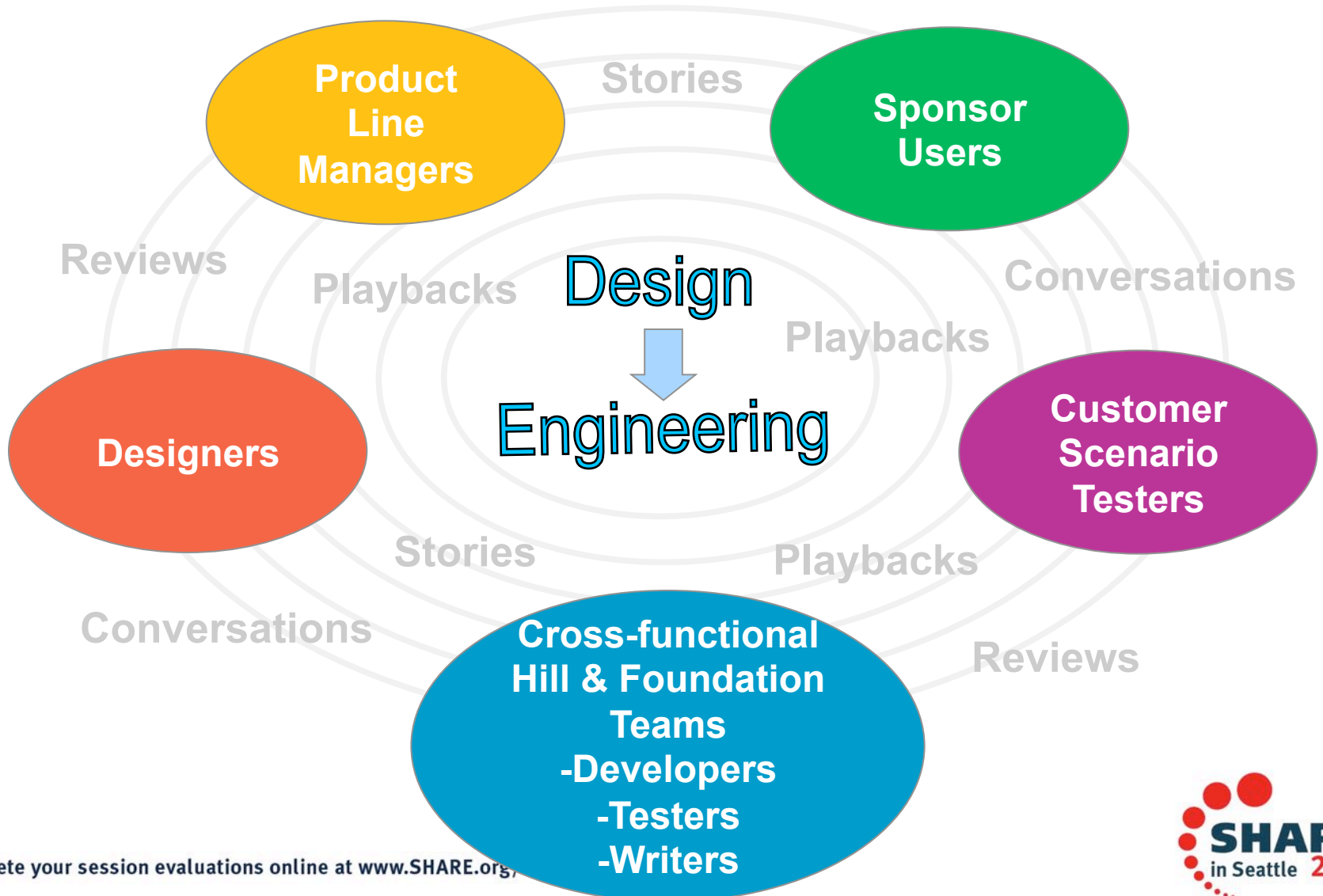
- Communicate hills, focusing on user value to be delivered
- Regular playbacks internally to wider team and externally to clients

Technical Foundation

- Separate team addresses RFEs, serviceability enhancements, infrastructure maintenance, etc

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In Summary - Continuous Collaboration



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Need expert help?

CICS Development Services, for worldwide services assistance

Get a deep dive into your systems with a CICS health check

Move forward with mobile with our customized mobile workshop

Soar into the cloud with our tailored cloud workshop

Want to know more about CICS and Java? We offer tailored Java education

Need to optimize your systems? Then ask about a performance optimization engagement

Need to modernise your workload in CICS? Ask about a integration and connectivity engagement

Get the low down on performance with a CICS performance workshops

Need some help upgrading to the latest release? Then ask about our upgrade workshop

Need to reduce cost by optimizing your systems? Then a performance optimization engagement may be for you

Need something different? Then we can build a **customized** workshop, just for you!

Visit ibm.com/cics then click 'Services'

Availability a concern? Then try our High Availability workshop

Bringing CICS development expertise directly to your doorstep

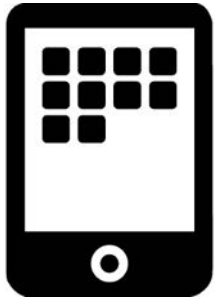
Email us CICSDTS@UK.IBM.COM

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MAINFRAME MOBILE **APP** 2015 THROWDOWN

CICS | IMS | WAS | DB2



The Mainframe Mobile App Throwdown is back for 2015!

Register now at

ibm.biz/mmthrowdown

and submit your app by April 12th

Mobilize your mainframe in our fun app-building contest
for z Systems clients & business partners!

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