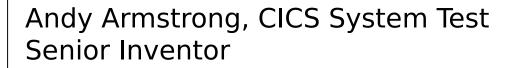
CICS Portfolio Version 5.1 Major updates to CICS Family







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CICS Transaction Server – Business perspective

- CICS TS is the world's premier enterprise class transaction processor
- CICS TS is designed to enable customers to create and maintain a competitive advantage
- CICS TS continues to deliver innovative and essential technology to enable customers to deliver on their business imperatives, now and into the future

Large scale business critical workloads, some > 1bn transactions per day Large installations with mixed workloads continue to support core business CICS web services is the most successful CICS feature in the last 10 years







Current challenges

- Critical importance is that operational costs are kept as low as possible •
- Increased pressure to be able to deliver results faster and more efficiently •
 - Current operational practices often inhibit the speed of delivery
- How do you keep pace with rapidly changing technology and trends? ٠
 - Consider the rapid growth of mobile devices and workloads, as well as cloud technology and services
 - Can you cope with the demands of the future?

Operation Efficiency: Controlling cost

Service Agility: Deliver results faster

Cloud Enablement: A long term investment



Announcing the new CICS Portfolio V5.1 release

Operational Efficiency

- Greater capacity achieve cost savings through consolidation
- Managed operations control critical resource thresholds with policies
- Increased availability reduce the need for planned downtime
- Deeper insight extend performance and compliance information

Service Agility

4

- First-class applications create agile services from existing assets
- First-class platforms create agile service delivery platforms
- Modern interfaces build rich web experiences for critical applications
- Foundational enhancements extend core capabilities

... with Cloud Enablement

Consistent with the IBM Cloud Computing strategy Positioning customers for the next transformational era in technology Moving towards a cloud oriented service delivery platform



100+ requirements

satisfied





New V5.1 tools deliver the complete solution

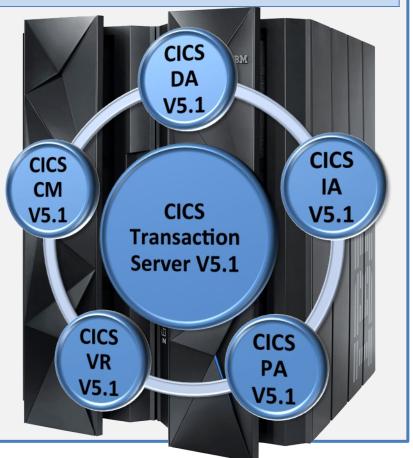


5

Five core foundational CICS Tools – updated to exploit TS V5.1

Fully integrated with the CICS Explorer...

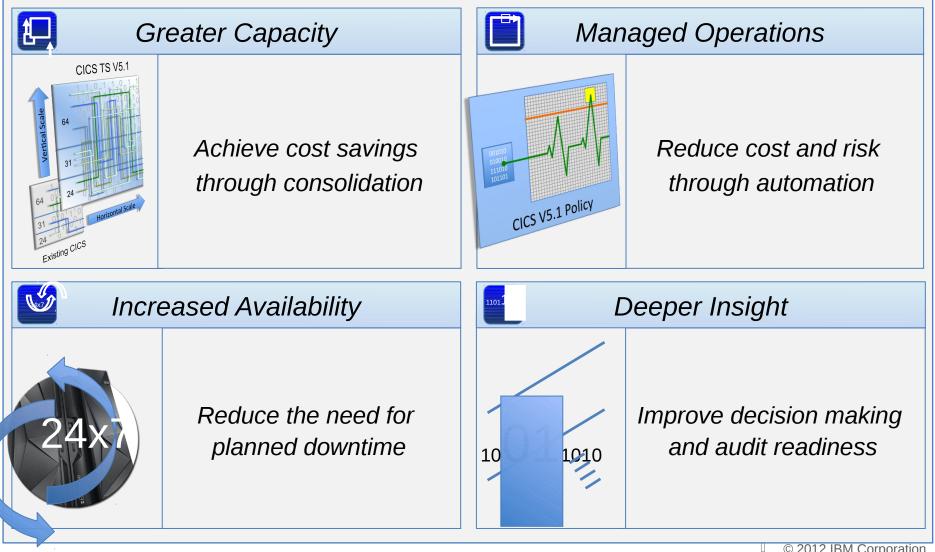
- Five core tools support and extend the CICS runtime
- Discovery and visualization aids insight
- Automation speeds service delivery and ensures standardization and governance
- Modern, integrated user interfaces lower skills barrier
- Day-1 exploitation of CICS TS V5.1 new capabilities reduces time to value







Driving Operational Efficiency





Greater capacity - Achieve cost savings through consolidation

CICS TS V5.1	Feature	Benefit
eres 64 64 64 64 64 64 64 64 64 64 64 64 64	Doubled MAXTASK to 2000 and optimized storage area usage	Greater vertical scalability
Aertical Scale	More threadsafe API & SPI and optimized TCB usage	Greater horizontal scalability
24	Java 7 support	Greater throughput
64 31 Horizontal Scale	64 Bit assembler storage usage	Application access to big data
24 Existing CICS	-	simplify your CICS ology



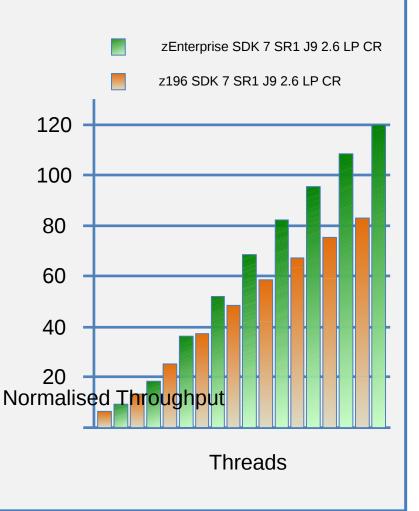




Performance improvements from Java 7 support

The latest JVM delivers a performance boost...

- zEnterprise EC12 offers a ~45% improvement over z196 running the Java Multi-Threaded Benchmark
- EC12 has additional instructions specifically for Java







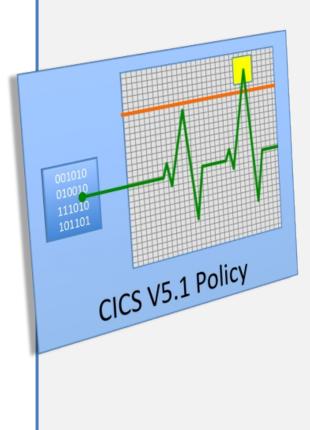
Greater Capacity – Achieve cost savings through consolidation IBM Lab benchmark demonstrated... Consolidate 30 regions down to 10 ٠ Decrease CPU usage up to 10%* • Reduce the management burden by 2/3 • Maintain the same workload • *Test conducted under lab conditions and results may vary – For further information contact IBM

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Managed Operations - Reduce cost and risk through automation



Feature

New declarative policy

Set policy thresholds on

- CPU usage
- Storage used and GETMAIN
- SQL or file access
- EXEC LINK

Automate actions on policy breech

- Issue message
- Abend a task
- Emit an event

Benefit

Define and automatically manage SLAs

Critical resource protection

Automatic response to undesired behavior





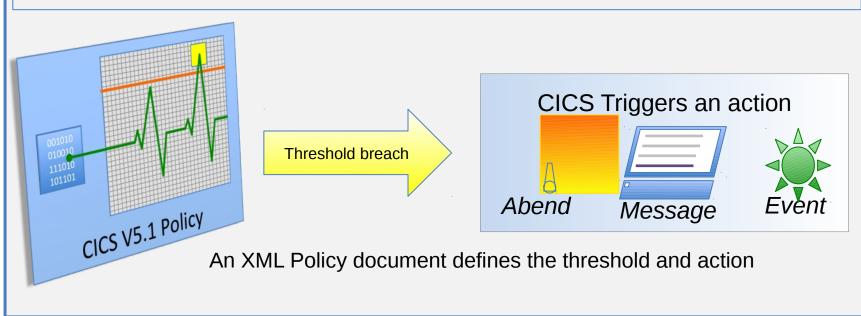




Managed operations - Control critical resource thresholds with policies

Protect critical systems

- "Abend any task running on the Retail Banking region that tries to request any 24-bit storage"
- "I want to see a *message* if a *task* allocates more than 1MB of storage in this region"
- "Trigger an *event* if a shopping-cart browse *task* generates more than 500 SQL requests"









Increased availability - Reduce the need for planned downtime

Feature

SVC dynamic update utility

SSL refresh

Improved default configuration settings

IPIC Heartbeat

EXCI XCF group selection from URM

Replication logging

Benefit

Upgrade CICS without z/OS IPL

Update SSL without region restart

Easier and quicker for new installations. Lowered skills requirements

Maintain IPIC connections during periods of inactivity

Full region availability from EXCI regardless of XCF group

IBM GDPS/AA readiness

10



10



Deeper insight - Improve decision making and audit readiness

Feature

Logging of system configuration changes via SPI

Auditable system configuration changes

Benefit

Specify that a full ID verification occurs

Extended identity propagation to include started tasks

SMF now stores SSL cypher suite and specialty engine usage data Better audits for requests over IP

Improved end-to-end security and auditability

Better understanding of system performance

Notification during lost lock recovery

Understand progress of lock recovery





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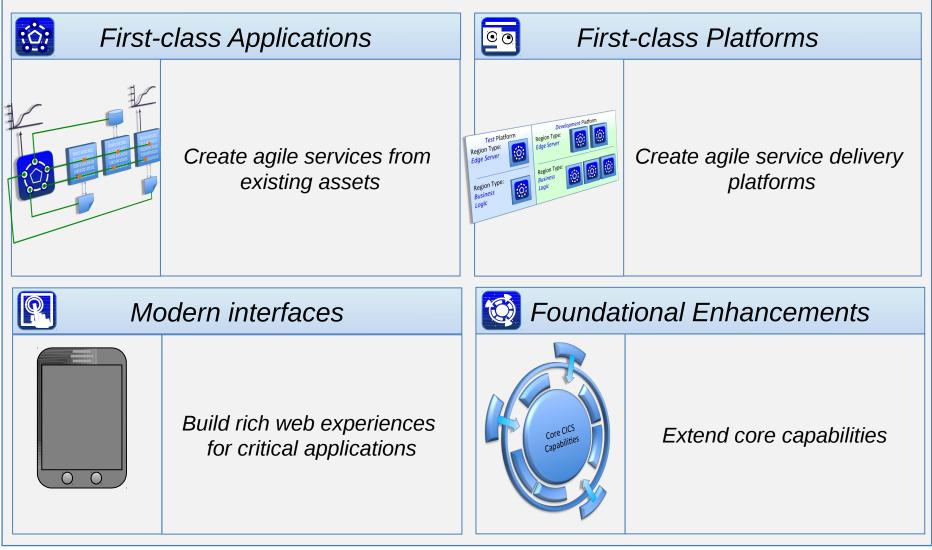
Driving Operational Efficiency

	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
lr	ncreased 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 start 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





Increasing Service Agility









First class applications - Create agile services from existing assets

Feature	Benefit
New declarative Application	Combine and manage disparate application
resource	resources as a single entity



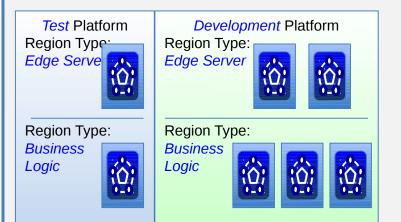




First class platforms - Create agile service delivery platforms

Feature

New declarative platform resource



Benefit

Group new and existing regions as platforms for rapid application deployments

Increase flexibility, by decoupling applications from the underlying CICS region topology

Increase reliability through automatic resource deployment and validation

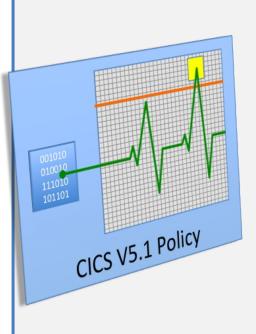
De-provision resources when requested, without requiring any interaction from a system administrator

Deploy applications to started regions within a platform, without requiring any interaction from a system administrator

Dynamically manage platforms by applying policies during runtime



Apply Policies to Applications and Platforms - Reduce cost and risk through automation



Feature

New declarative policy

Set policy thresholds on

- CPU usage
- Storage used and GETMAIN
- SQL or file access
- EXEC LINK

Benefit

Define and automatically manage SLAs

Critical resource protection

Automate actions on policy breech

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- Emit an event

Automatic response to undesired behavior

18

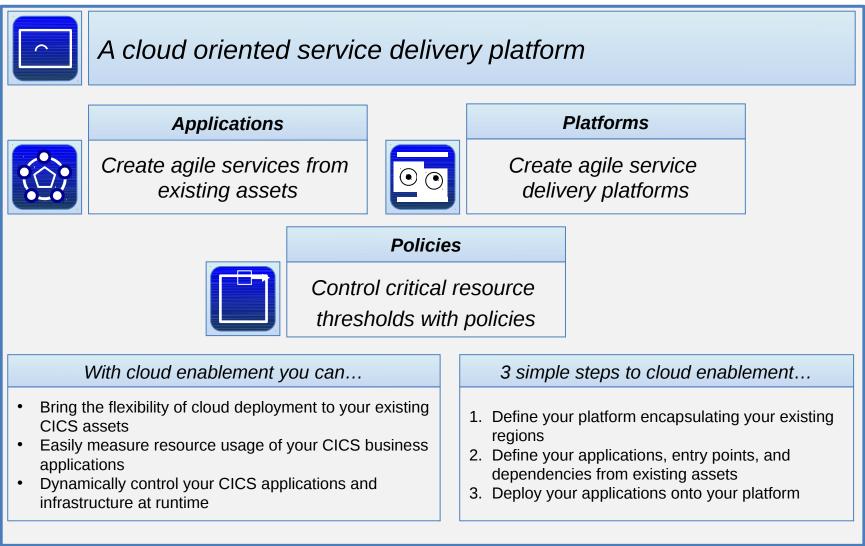




Service Agility, development scenario...

"Hey Simon, I need to test my new version of the payroll application." FASTER "Sure Abigail, you should get the latest payroll test platform from the repository, I'll send you a link." "Thanks, I'll deploy my app onto that platform on the development plex later today." SIMPLER "That should be fine, just check with Oliver that the **policies** on the plex are going to be OK for your app's changes."



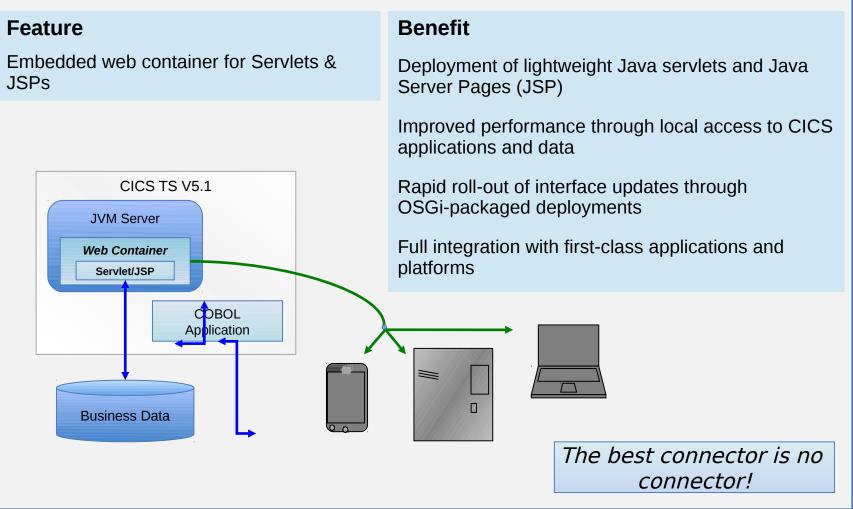








Modern interfaces - Build rich web experiences for critical applications









Foundational enhancements - Extending core CICS capabilities



Feature

Enhanced CICS event support

WebSphere MQ Dynamic Program Link (DPL) bridge support message >32KB

IPIC support for IMS

GET and PUT container enhancements

Backup and restore capability for entire CICSPlex System Manager (CICSPlex SM) systems without manual overrides **Benefit**

One-to-many event emissions

No restrictions on MQ DPL message size

Improved integration and error recovery

Reduce application storage needs

Improved automation

Automatic daylight saving adjustments

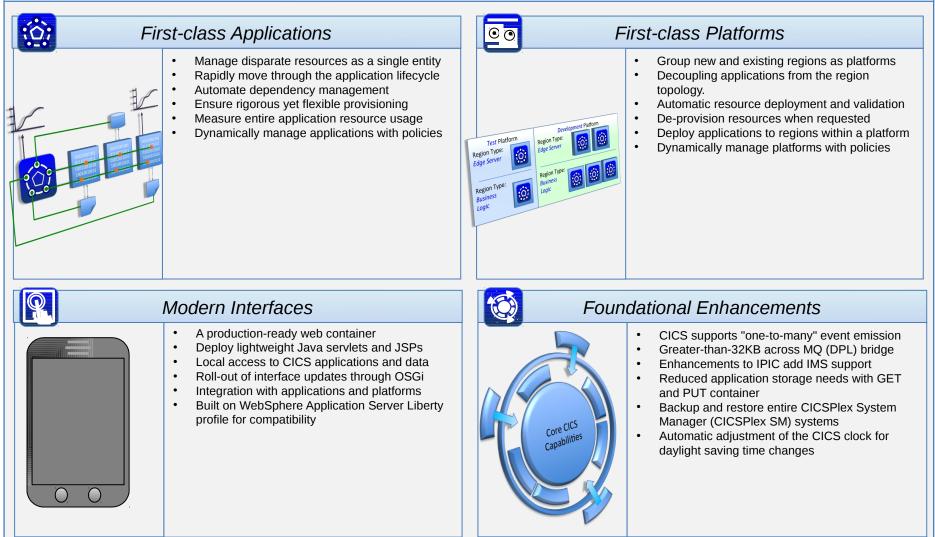
No need to restart CICS regions





Increasing Service Agility

23







New V5.1 tools deliver the complete solution

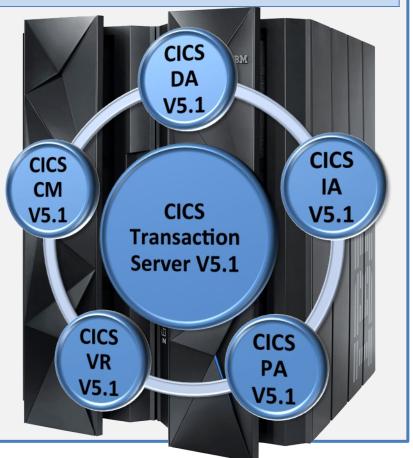


24

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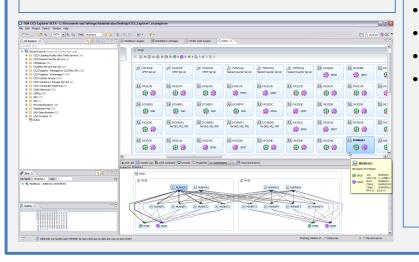
CICS Deployment Assistant for z/OS V5.1



Topology insight through discovery

CICS DA enables you to...

- Visualize and manage your CICS topology
- Discover existing regions and sub-systems
- Automatically create a new CICSplex
- Plexify and clone CICS regions
- Start and stop a CICS region



What's new in CICS DA V5.1...

- Enriched discovery of over 30 entities
- Improved visualization with tagging and filtering
- Export model for external reporting
- CICS TS V5.1 upgrade cheat sheet
- IPv6 support
- Virtual IP addressing support
- Clone JCL improvements
- Serviceability enhancements
- Connections view with scoping





DA – Plexify your unmanaged regions

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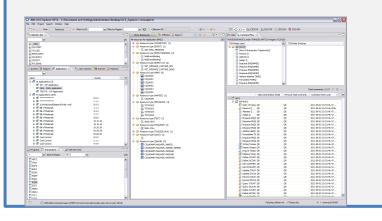
CICS Interdependency Analyzer for z/OS V5.1



Application insight

CICS IA enables you to...

- Identify threadsafe / non-threadsafe programs
- Highlight CICS web service candidates
- Speed CICSPlex® SM workload
 management
- Advanced CICS command flow analysis



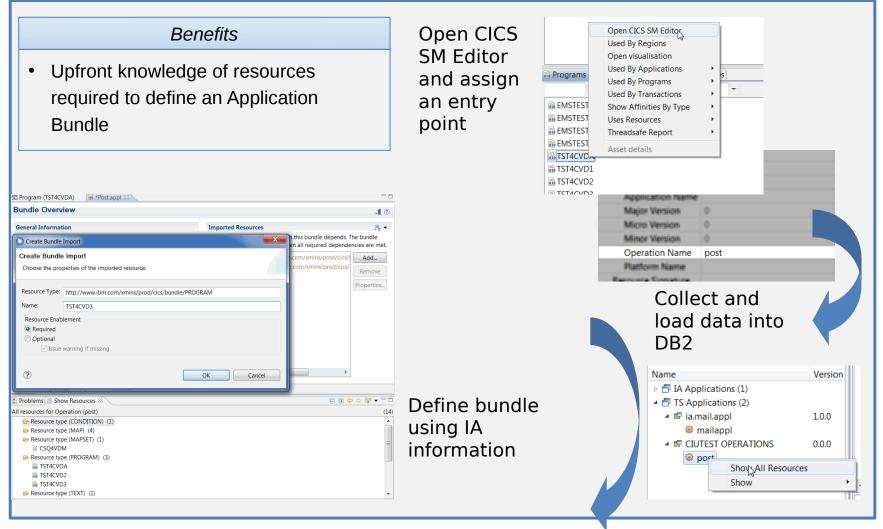
What's new in CICS IA V5.1...

- CICS Business Events support
- Support for building CICS Applications
- Improved CICS Explorer views
 - Plug-in control for data collection
 - Command Flow self-service
 - Enhanced business application analysis
- CICS user exit detection and mapping





Using CICS IA data to define Applications in TS 5.1



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Application insight

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

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What's new in CICS PA V5.1...

- CICS TS V5.1 support for Application, Platform, and Policy
- Several UI enhancements:
 - Application centric view
 - Customizable sheet views
 - Wait Analysis
 - Improved Navigation
 - Export and Import capability
 - Batch statistics reporting for CICS TG
 - Statistics filtering
 - CPU totals on MQ reports







Reduce the risk to your data

CICS VR enables you to...

 Manage and automate the recovery of damaged, corrupted, or lost VSAM files for both the CICS and Batch environments.

Recover

Update

- Supports backups created by Backup-While-Open (BWO)
- Test forward recovery and backout
- Produce disaster recovery reports

What's new in CICS VR V5.1...

- Replication logging in support of the GDPS-Active-Active availability solution
- Batch logging enhancements
- Batch backout improvements
- Migration utility enhancements
- Logstream printing and other usability enhancements

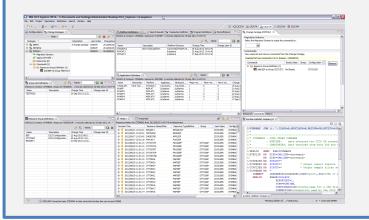
CICS Configuration Manager for z/OS V5.1



The value of control

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



What's new in CICS CM V5.1...

- Support for Application, Platform, and Policy resources
- Enhanced plug-in with Packaging and Deployment Analysis
- Sort in Package view and Ready list
- Command stack improvements
- Remove empty Group from the CSD List
- SSL support for plug-in connection
- Audit trail for Install and NewCopy







Recap of CICS Portfolio 5.1 Capabilities

Operational Efficiency

- Greater capacity achieve cost savings through consolidation
- Managed operations control critical resource thresholds with policies
- Increased availability reduce the need for planned downtime
- Deeper insight extend performance and compliance information

Service Agility

- First-class applications create agile services from existing assets
- First-class platforms create agile service delivery platforms
- Modern interfaces build rich web experiences for critical applications
- Foundational enhancements extend core capabilities

... with Cloud Enablement

Consistent with the IBM Cloud Computing strategy Positioning customers for the next transformational era in technology Moving towards a cloud oriented service delivery platform

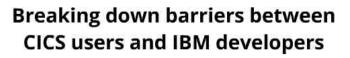


Online Requirements!

CICS Family Request for Enhancement (RFE) Community

- Submit your requirements directly to IBM, interact with the Lab and track status online
- Collaborate with the community by searching, viewing, discussing and voting on requirements
- What's new with CICS Family RFEs?
 - Transparent process with no middle-men between you and the lab
 - Email notifications to let you know when the requirement request is updated
 - Private fields for information you only want to share with IBM
 - Online searches and voting of the existing RFEs in the database

ibm.com/developerworks/rfe/websphere











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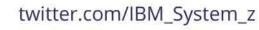


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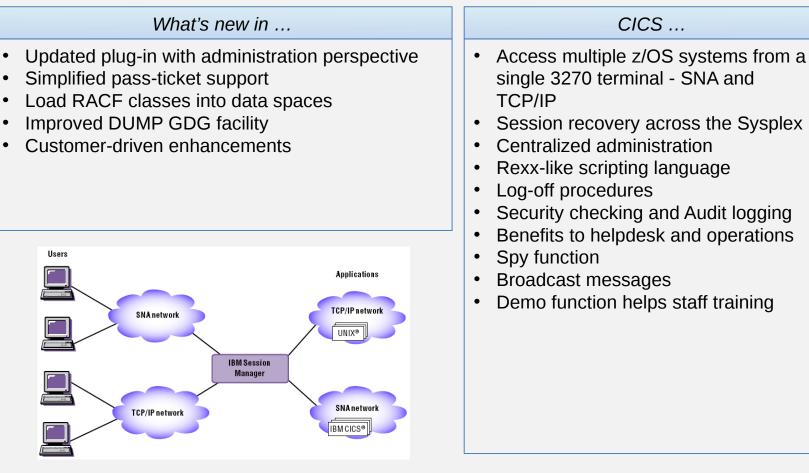


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IBM Session Manager for z/OS V3.2



Simple, secure session-management







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 PD Tools provides ... Five tools addressing z/OS problem resolution New IBM Problem Determination Tools Studio needs - Debug Tool, Fault Analyzer, File Manager, pre-packaged with plug-ins Application Performance Analyzer and Workload File Manager DB2 and CICS plug-in Simulator Initial Workload Simulator plug-in Subsystem and language support traversing z/OS provided in a timely manner when subsystems and Enhanced integration and synergy amongst PD languages are updated Tools, CICS Explorer and/or IMS Explorer taking Improved TCO with full function tools at advantage of newly announce common z/OS competitive price **Explorer** capabilities CICS TS 4.2, IMS V12, MQ 8.1 updates to ensure synchronization with latest subsystems ebug - IBM Problem Determination Tools Studi Improved Java support in APA and FA

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Fetching children of DDS020





CICS Transaction Gateway V9.0



Open integration and modernization

What's new in CICS Transaction Gateway V9.0...

- Java 7 support for client applications ٠
- End-to-end transaction tracking
- SSL connectivity for 3-tier topologies
- Connection-level time-out with IPIC
- 64-bit support for ECI V2 and ESI V2
- ECI V2 support for asynchronous calls. ٠
- Simplified configuration
- Statistics with CICS TG for MP
- Increased vertical scaling on z/OS ٠

CICS Transaction Gateway provides...

- Proven connectivity—distributed platforms integrate with any CICS server
- Skills match for today-bridges the skill gap
- Secure, scalable, and highly available connectivity

