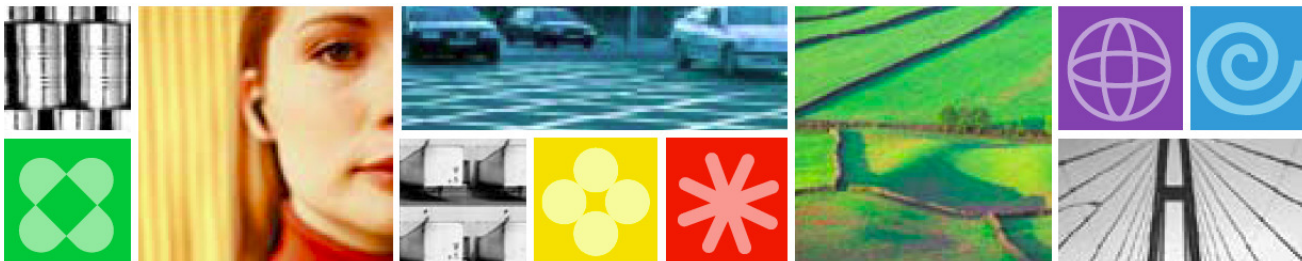




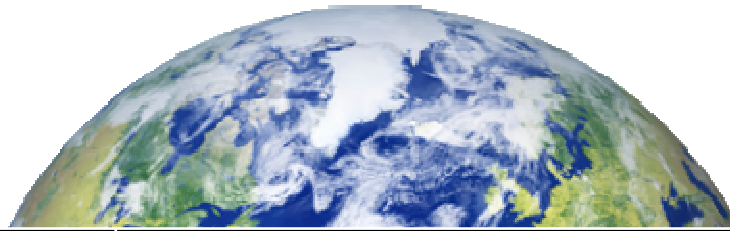
# IBM CICS Explorer - The smart, new face of CICS





IBM Vision at a Glance...

# Smarter Planet



- instrumented
- interconnected
- intelligent

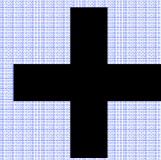
- people
- companies, institutions, industries
- man-made systems
- nature's systems



## Today's Imperatives Are...

### **Cost Optimization**

to slash operational and maintenance expense and maximize efficiency necessary for all economic climates



### **Agility**

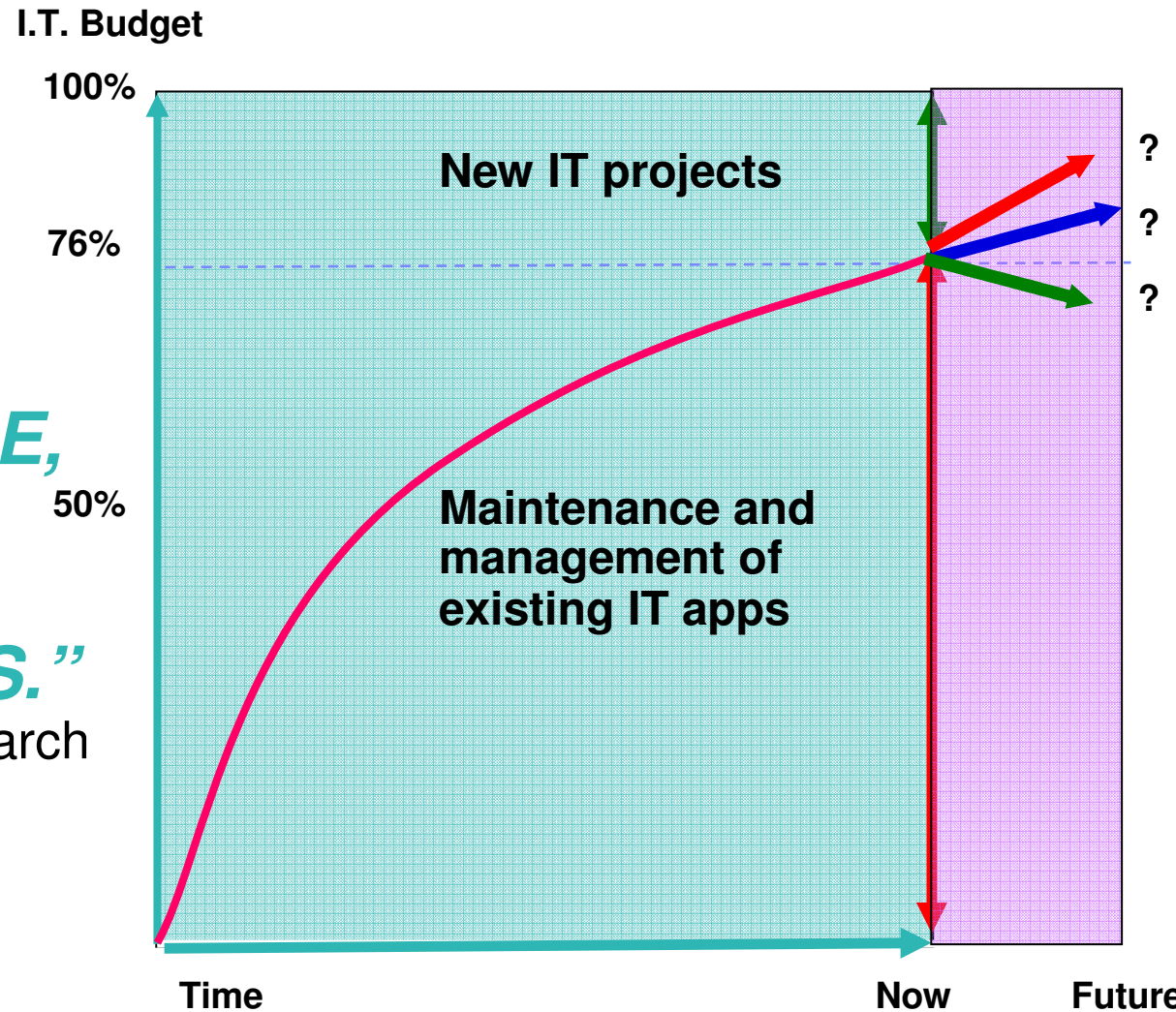
to take advantage of new revenue opportunities and address competitive threats

## **To Survive... To Succeed!**



## Where are IT Budgets Being Spent?

**“76% of I.T budgets are spent on MAINTENANCE, leaving only 24% for NEW INVESTMENTS.”**  
--- Forrester Research

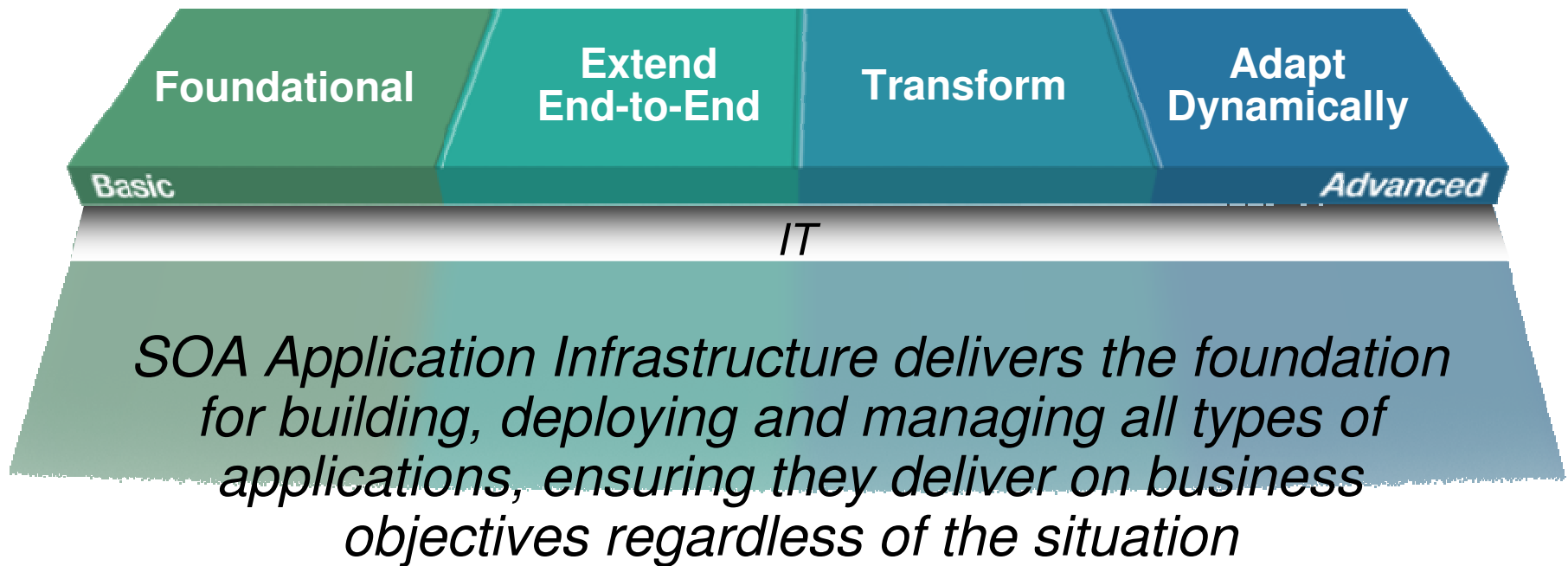




# IBM's Smart SOA

*Powers Smarter Business Outcomes Across a Continuum*

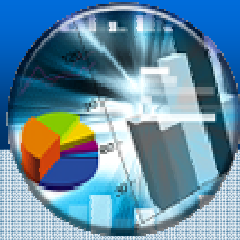
*Business*





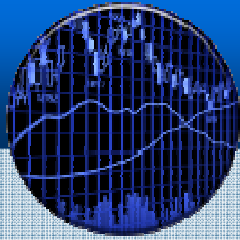
# The Power of a Smart SOA Application Foundation

Modernize applications



**Expand client offerings using existing business data with Web 2.0**

Execute high volume transactions



**Reduce business risks with highly available, secure applications**

Capitalize on dynamic situations



**Timely insight with low cost situational applications**

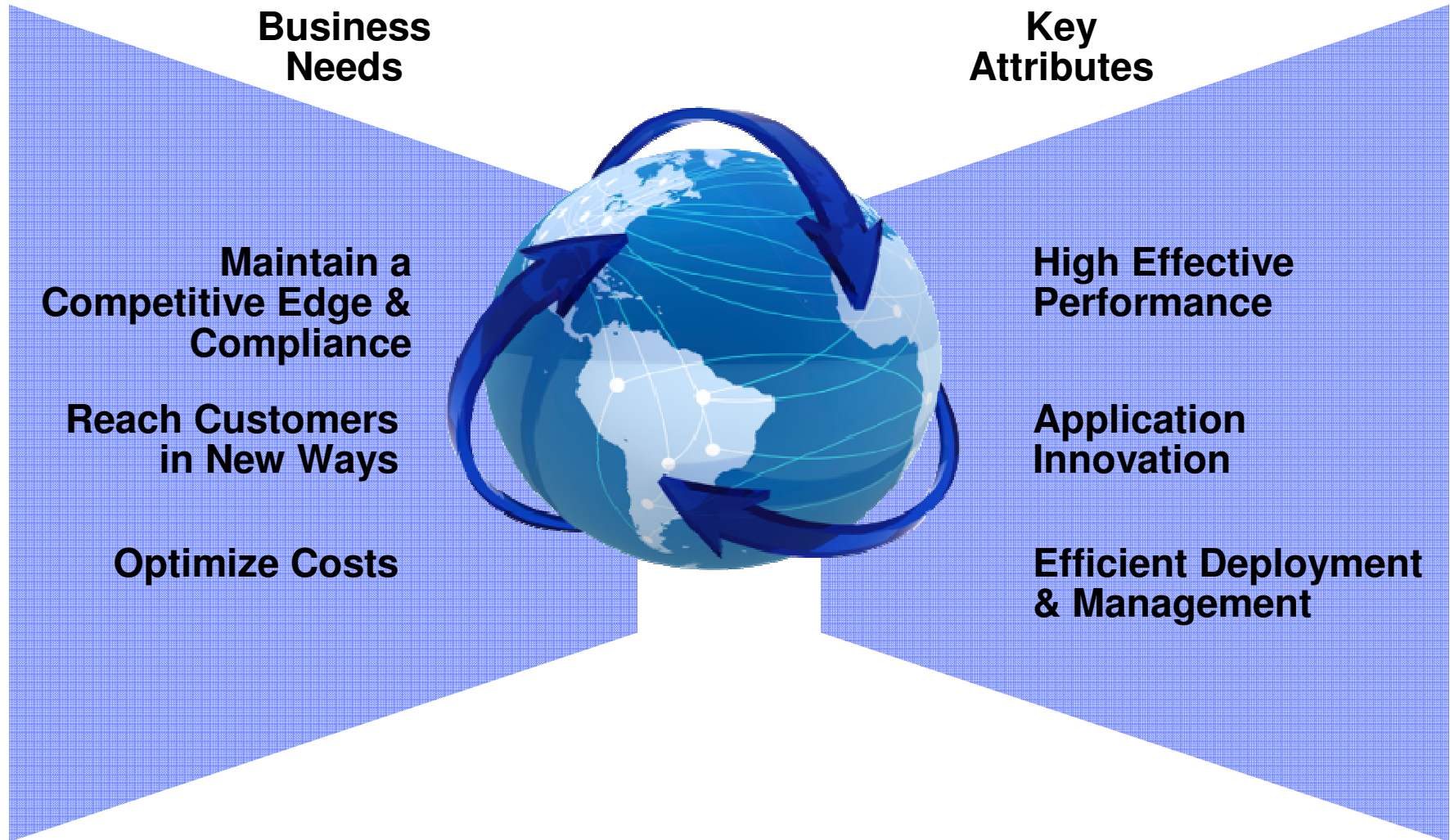
Manage worldwide operations



**Rapidly introduce new capabilities throughout the business with centralized administration**



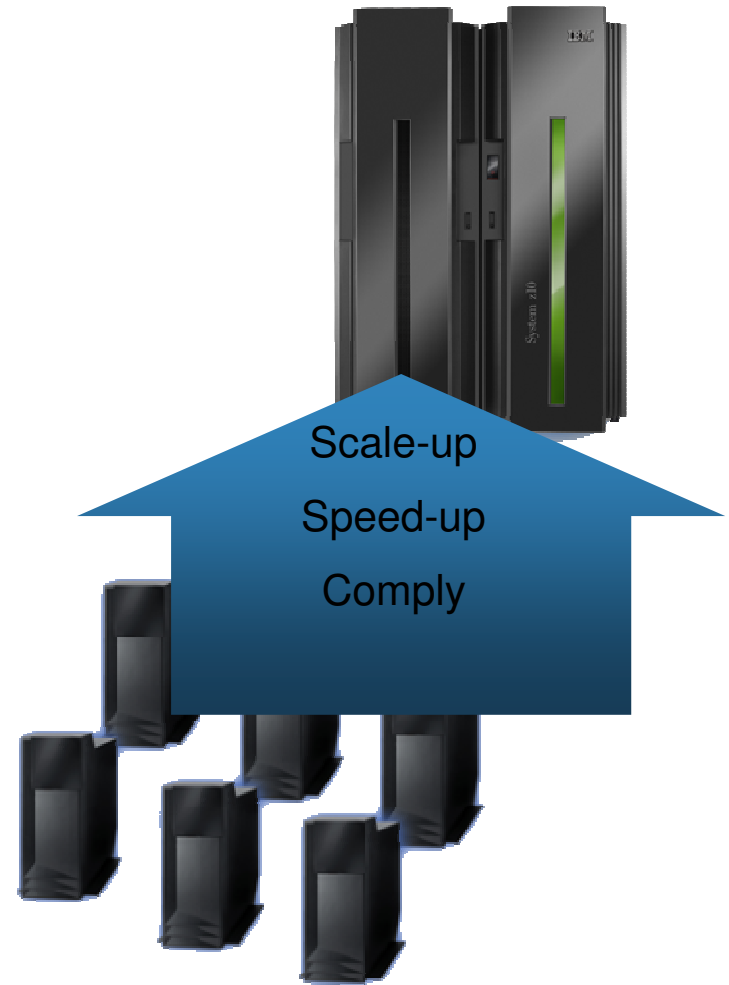
## Address your critical business needs with Smart SOA Application Foundation





# Maintain a Competitive Edge & Compliance

- **Applications should be available, secure, and responsive while reducing cost**
- **Customer demand needs to be met without complex IT infrastructure**
- **Customer data must be protected**
  
- **Get the highest performance for the lowest cost**
- **Support more business services with fewer IT resources**
- **Prevent costly compliance breaches**

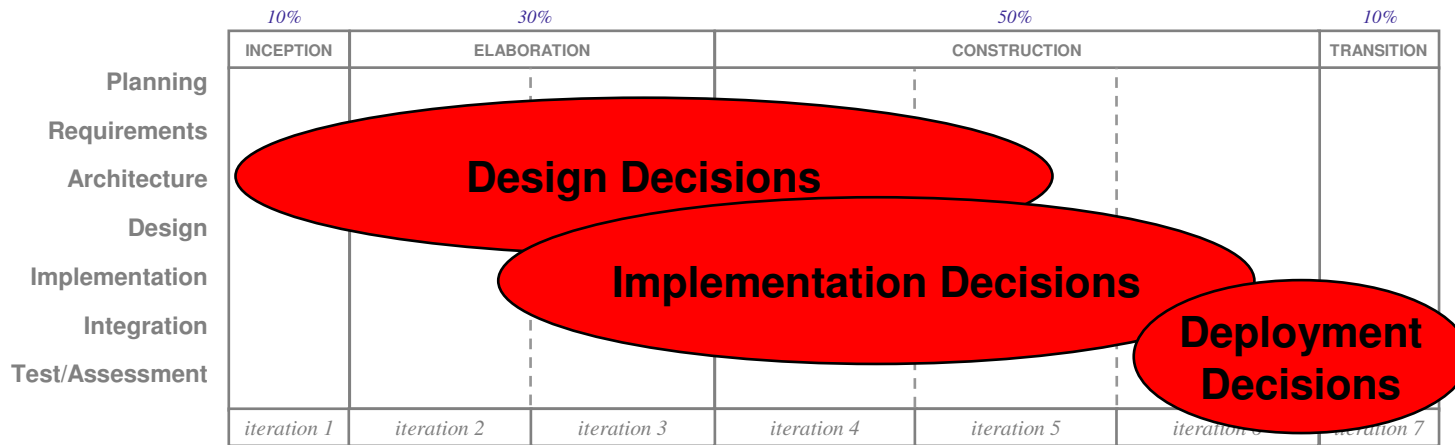




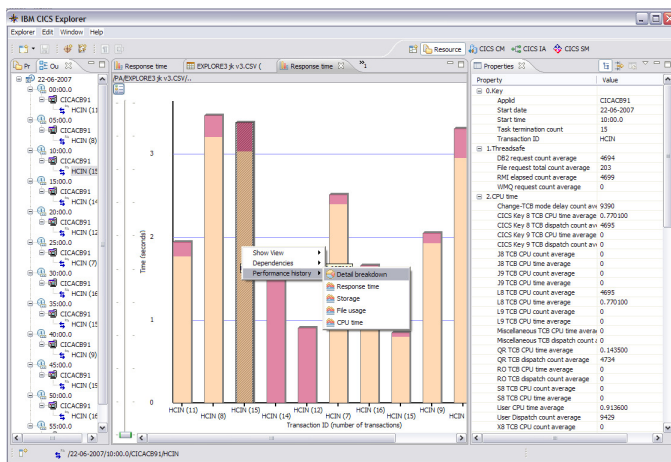


# Achieve efficient application response time

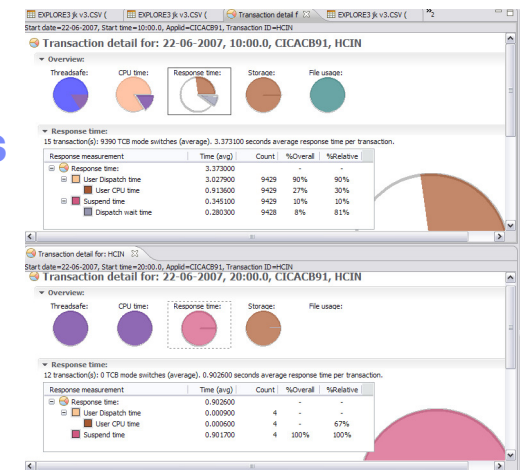
## CICS Performance Analyzer



*"For every phase in which a defect is left beyond the point of detection, it becomes 80 to 1,000 times more expensive to remove."* Gartner



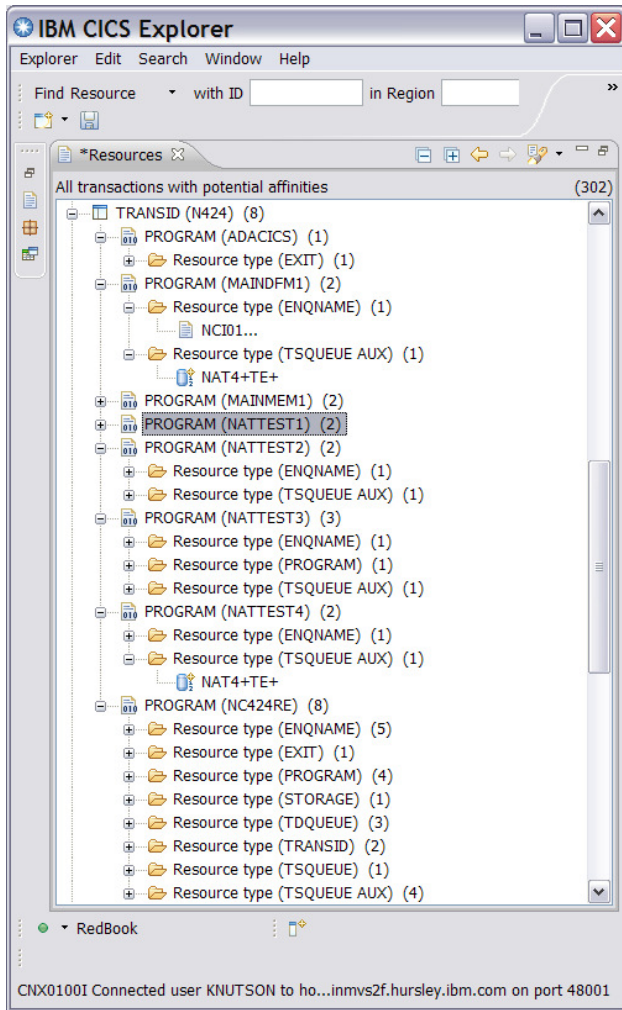
- Look for out of line metrics
- Drill into performance data
- Compare two test periods





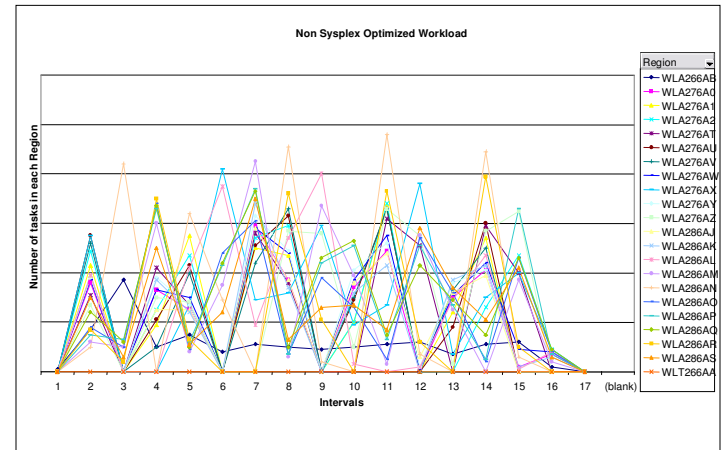
# Consolidate workloads - improve throughput

## *CICSplex SM and CICS Interdependency Analyzer*

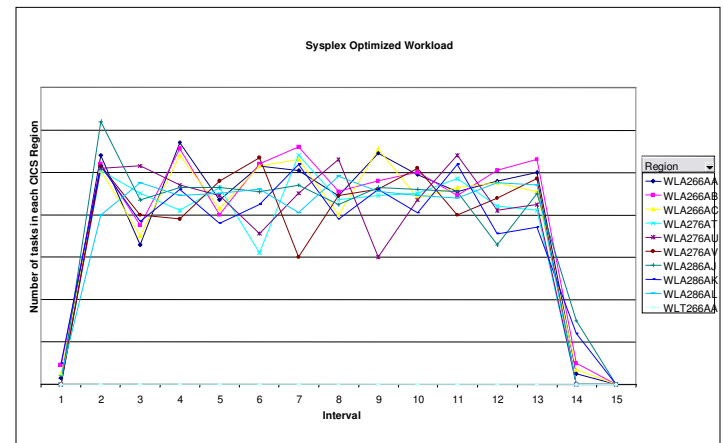


New Optimized Routing in CICSplex SM  
smoothes work distribution for higher throughput

**Non-optimized**  
27 CICS regions  
17 seconds



**Optimized**  
9 CICS regions  
15 seconds

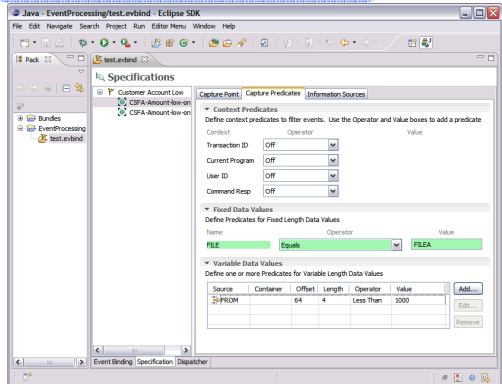
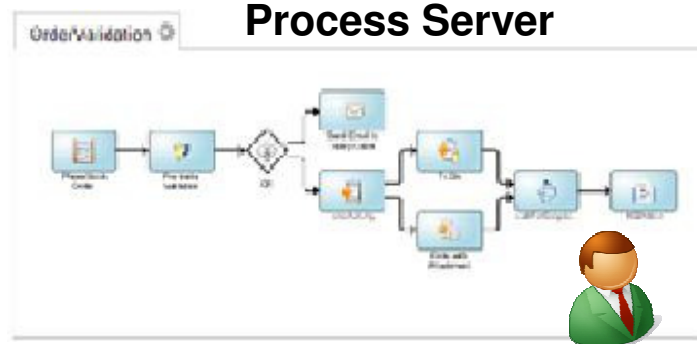
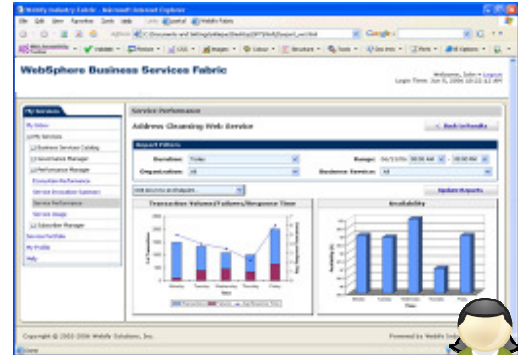
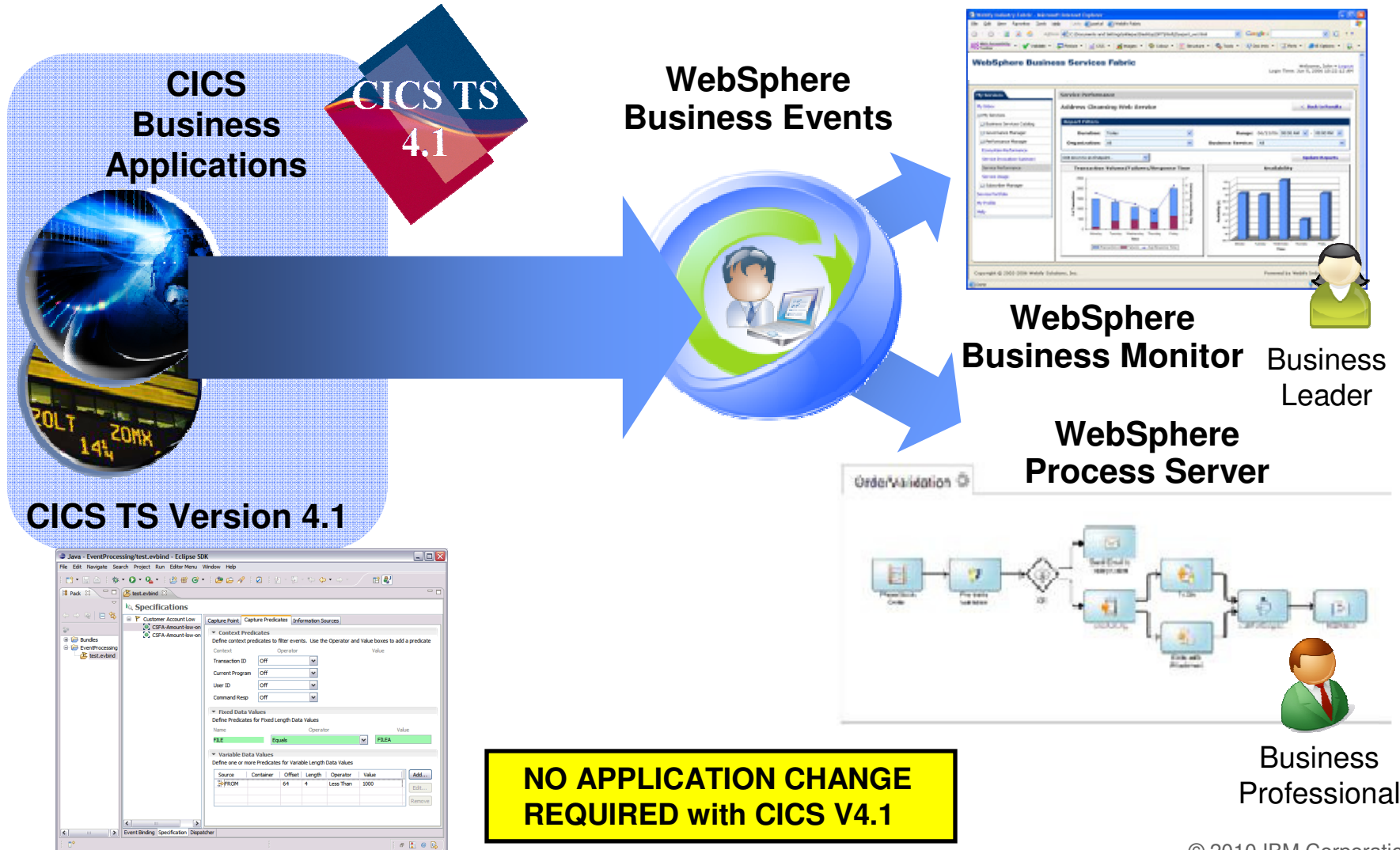


CICS Interdependency Analyzer identifies affinities  
for removal or input to CICSplex SM



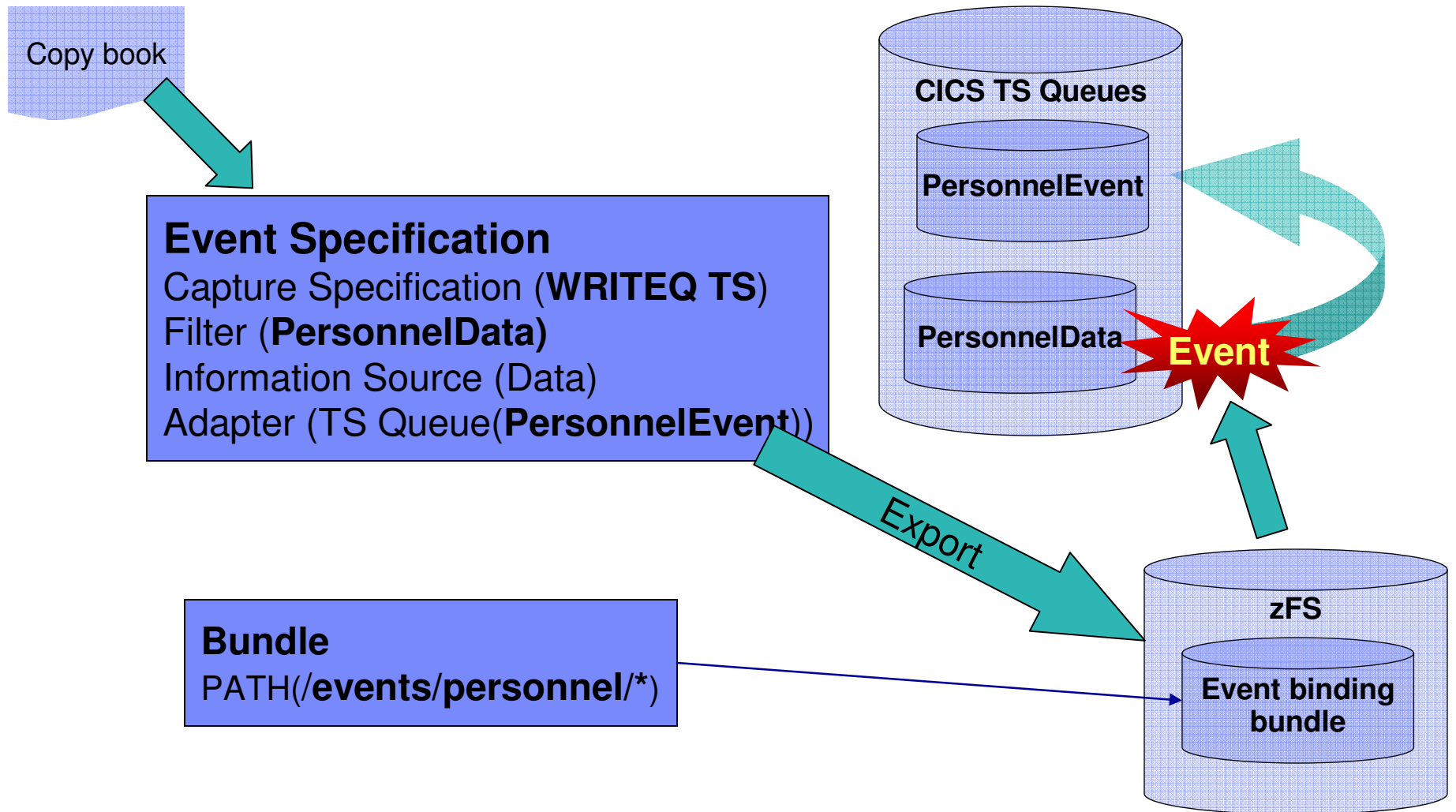
# Provide insight for more flexible business control

*CICS TS V4.1 and WebSphere Business Events*





# Resource Definitions for Business Events





## Business events - DEMO

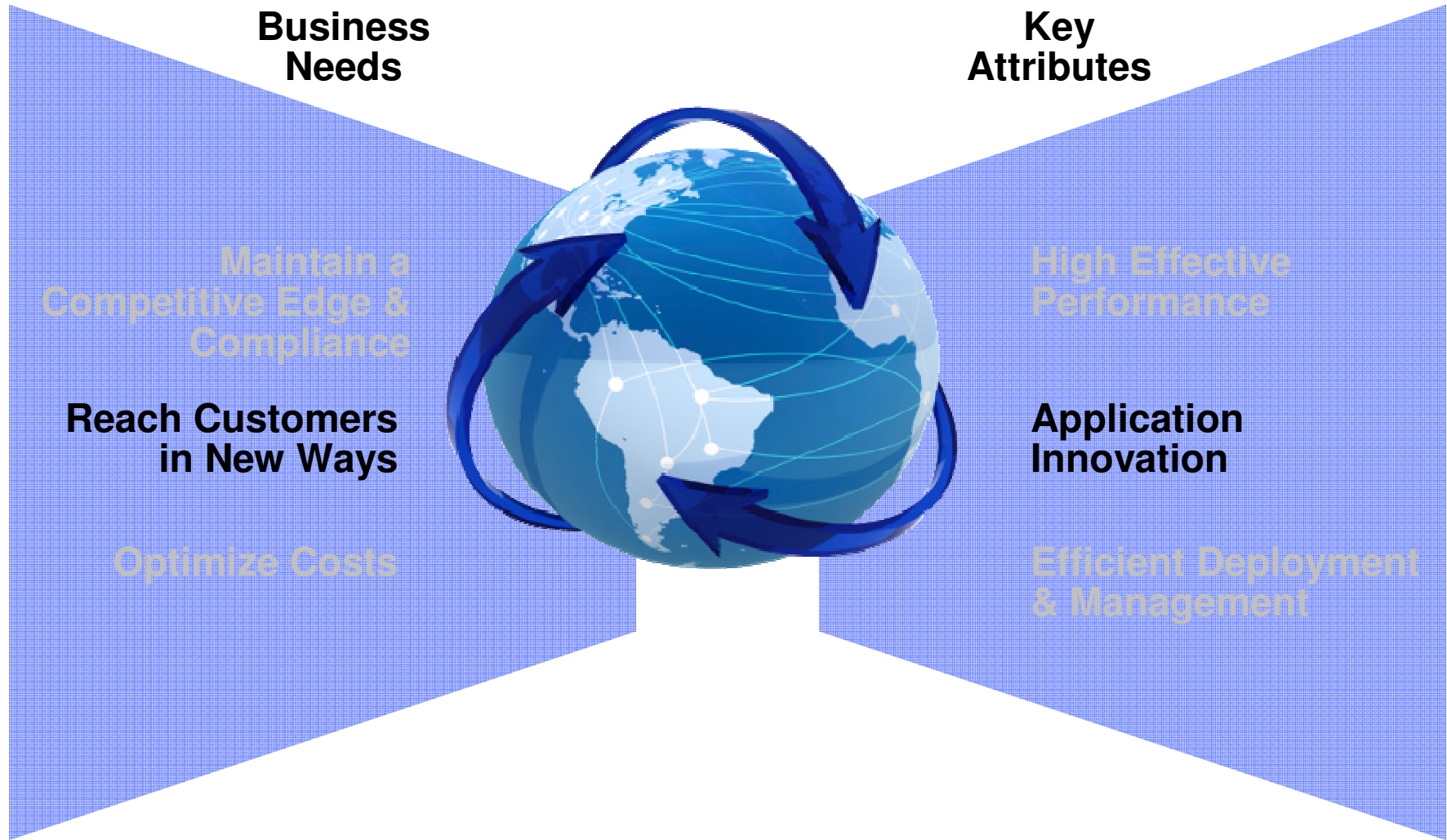
**Click to play**  
**CLICS business events demo**  
**from local file**

**Click to play**  
**CLICS business events demo**  
**from YouTube**

**YouTube link** <http://www.youtube.com/watch?v=MZHQylwZJLQ>



# Address your critical business needs with Smart SOA Application Foundation





## Reach Customers in New Ways

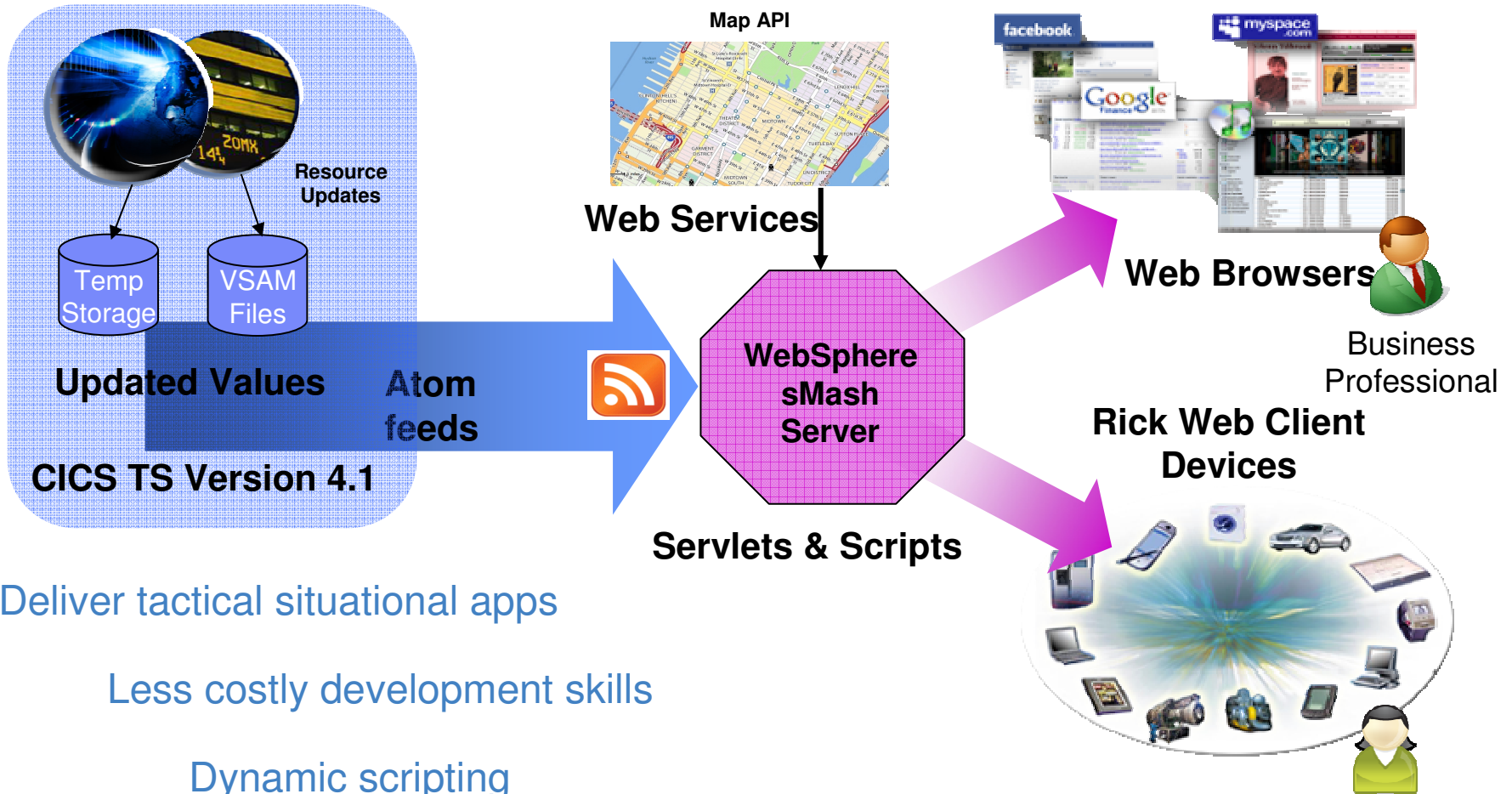
- **Difficult to stay competitive and deliver rich user experiences?**
- **New applications need to optimize use of existing applications and services?**
- **Increasing demand for situational applications?**
  
- **Achieve faster ROI with SOA reusing applications and services**
- **Quickly deliver applications using Web 2.0**
- **Enable real-time access from mobile devices**





# Improve customer experience with innovative communications

## CICS TS V4.1 Atom feeds



- Deliver tactical situational apps
- Less costly development skills
- Dynamic scripting

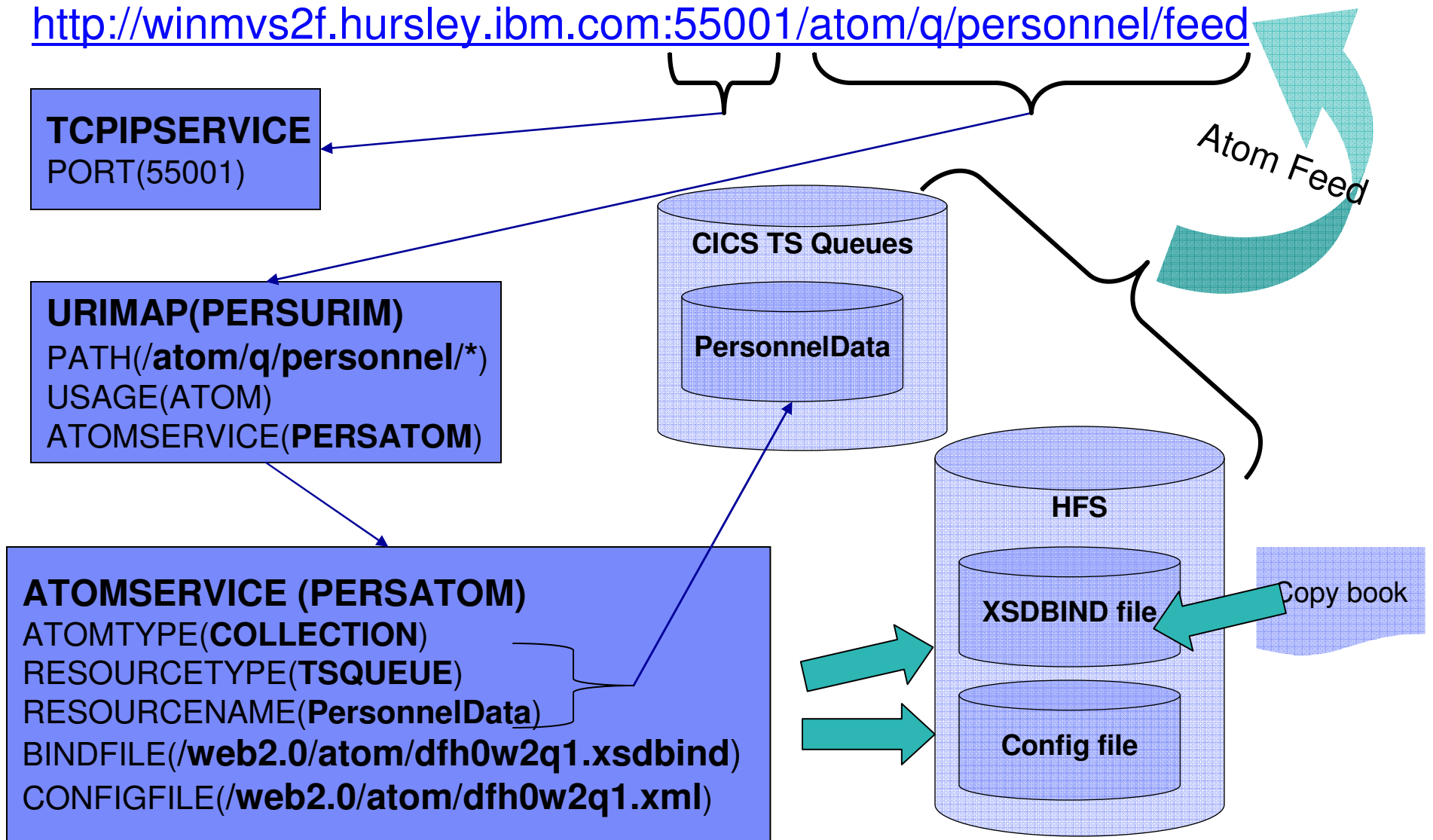
**NO APPLICATION CHANGE REQUIRED with CICS V4.1**





# Resource Definitions for Atom Feeds

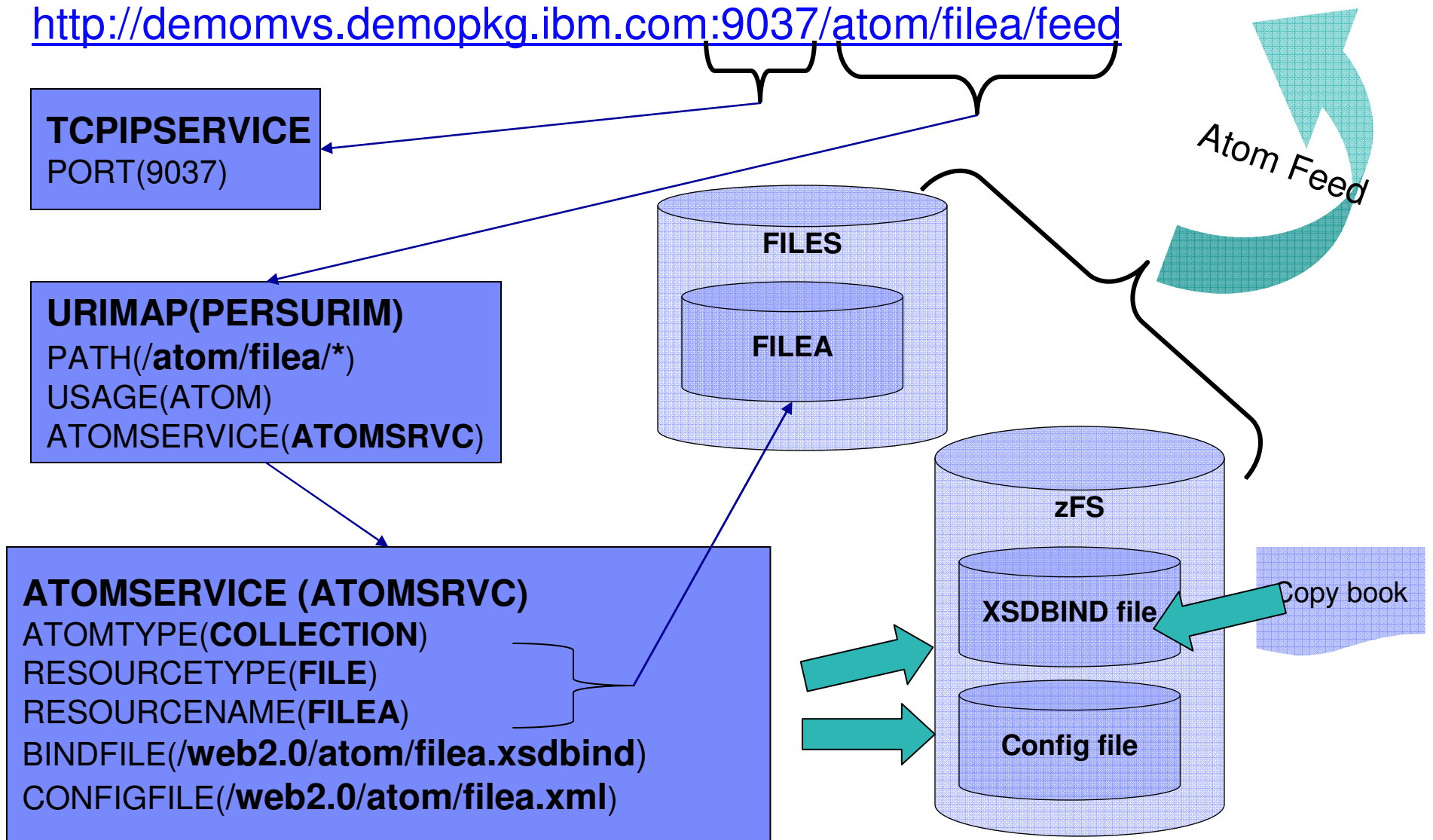
<http://winmvs2f.hursley.ibm.com:55001/atom/q/personnel/feed>





# Resource Definitions for Atom Feeds

<http://demomvs.demopkg.ibm.com:9037/atom/filea/feed>





## To utilize CICS's ATOM support, you need five artifacts

- **TCPIP SERVICE resource definition**
  - Incoming RESTful requests will arrive via HTTP
  - TCPIPService definition with protocol HTTP
  - Specifies the port CICS on which CICS should listen
- **URIMAP resource definition**
  - URIMAP resource definition to tell CICS that if it receives a URI that starts with /atom/filea
    - CICS should take action based on the specified ATOMSERVICE resource definition
- **ATOMSERVICE resource definition**
  - An ATOMSERVICE resource definition is used to indicate the resource type and name (FILEA)
  - The type of Atom document that should be returned (feed, collection, service, or category)
  - The name of the config file (an XML file with information about the data to be returned)
  - The name of the Bindfile which contains the layout of the data on the specified resource
- **Atom Configuration file**
  - The Atom configuration file contains XML that specifies the metadata and field names for the Atom document that is returned for this resource definition
- **XML Binding file**
  - The Bindfile is created using the CICS XML assistant program DFHLS2SC
  - The Bindfile contains information about the data mapping between the resource data (a record in FILEA) and the XML encapsulated data that is returned based on the Atom request.
- **<http://demomvs.demopkg.ibm.com:9037/atom/filea/feed/000100>**



## CICS Atom Feed - DEMO

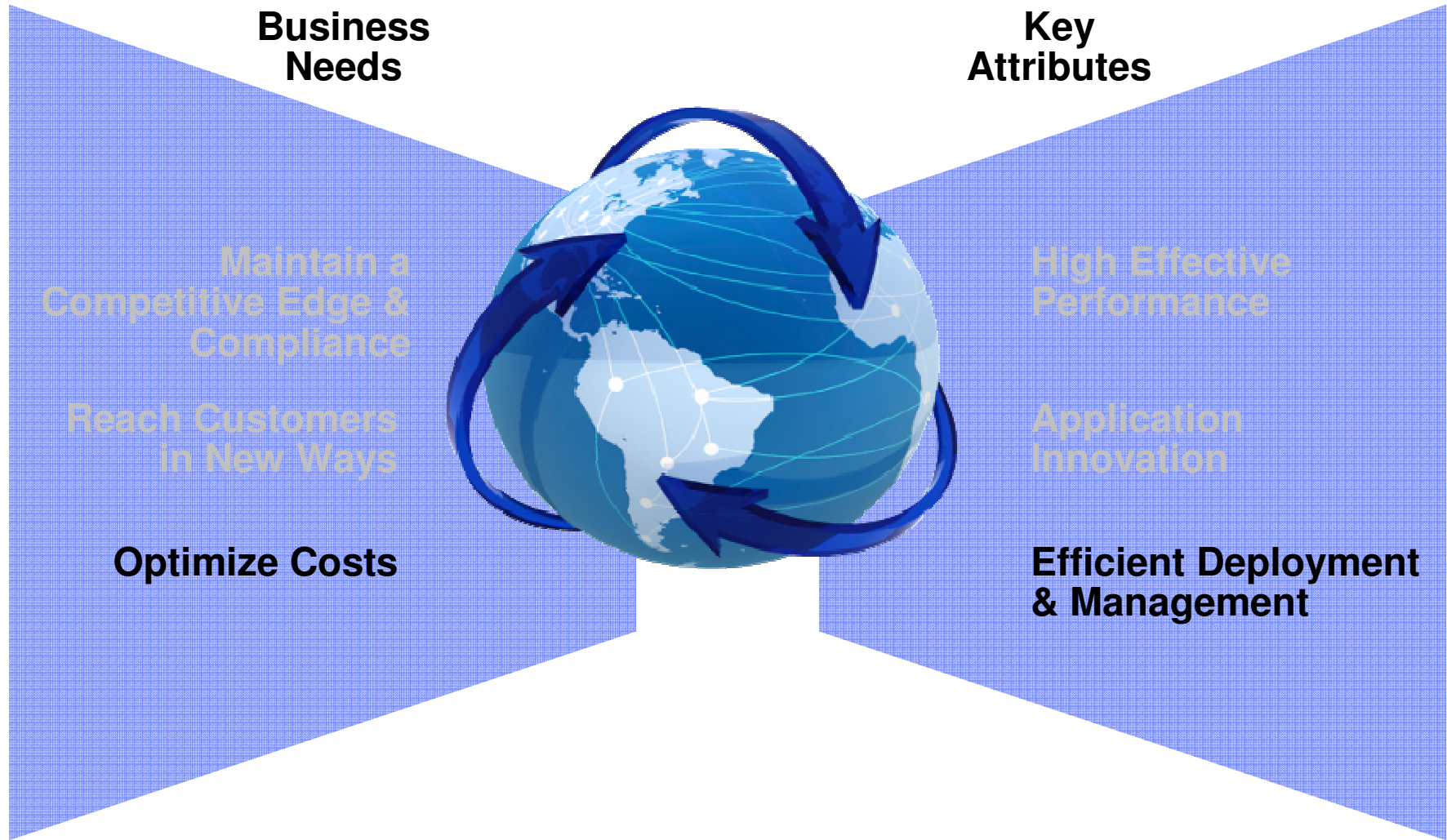
**Click to play  
CICS Atom Feed  
demo from local file**

**Click to play  
CICS Atom Feed demo  
from YouTube**

**YouTube link** <http://www.youtube.com/watch?v=-c9dKu7BIgU>



# Address your critical business needs with Smart SOA Application Foundation

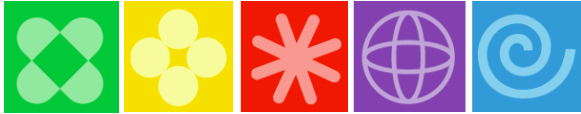




## Optimize Costs Through Efficiency

- **Need to deliver new & custom applications fast?**
- **Cost of development is rising, but budgets are declining?**
- **Geographically dispersed infrastructure is costly to manage?**
  
- **Use less costly development skills to build web apps**
- **Be productive with integrated tools that reuse what you have**
- **Cut operational costs with centralized application management**





Dynamic Infrastructure

New Intelligence

Smart Work

Green & Beyond

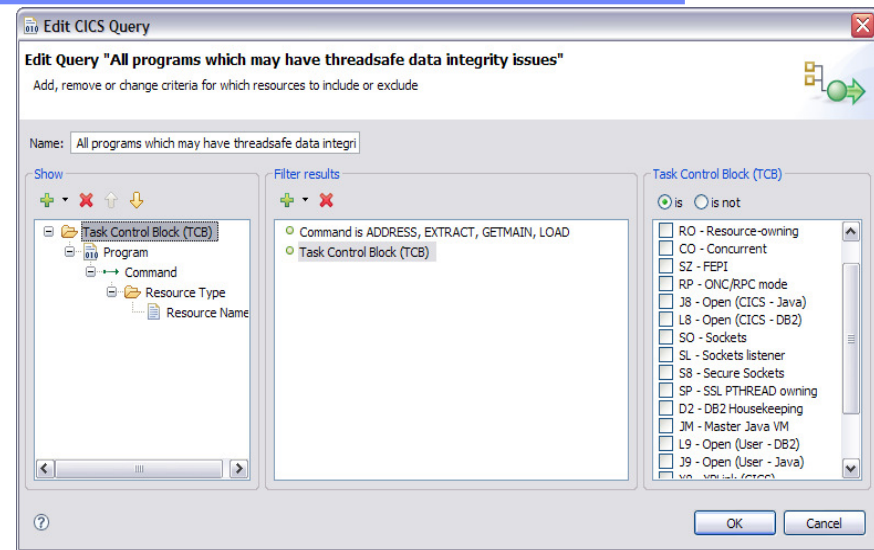
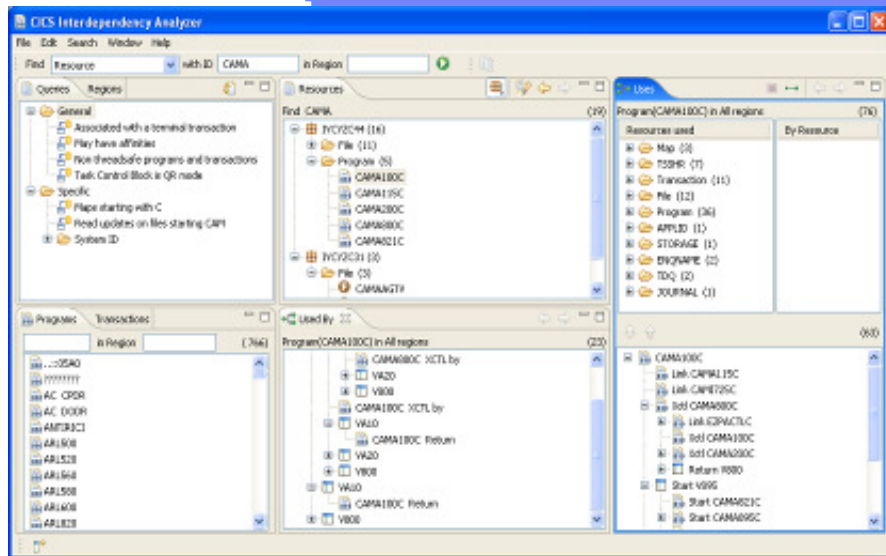
IBM

# Reuse and extend legacy and packaged apps

## CICS Interdependency Analyzer



### Application Insight



#### Questions

- Which programs would make good Web services?
- Where are my Business Event sources?
- Which programs use these files, queues, tables?

#### Business Value:

- Reduced risk of problems changing complex applications when under time pressure or without deep CICS skills
- Bring new staff up to speed quickly
- Deliver situational applications to broader user community



Dynamic  
Infrastructure

New  
Intelligence

Smart  
Work

IBM

# Work smart with complex CICS configurations

## *CICS Configuration Manager*

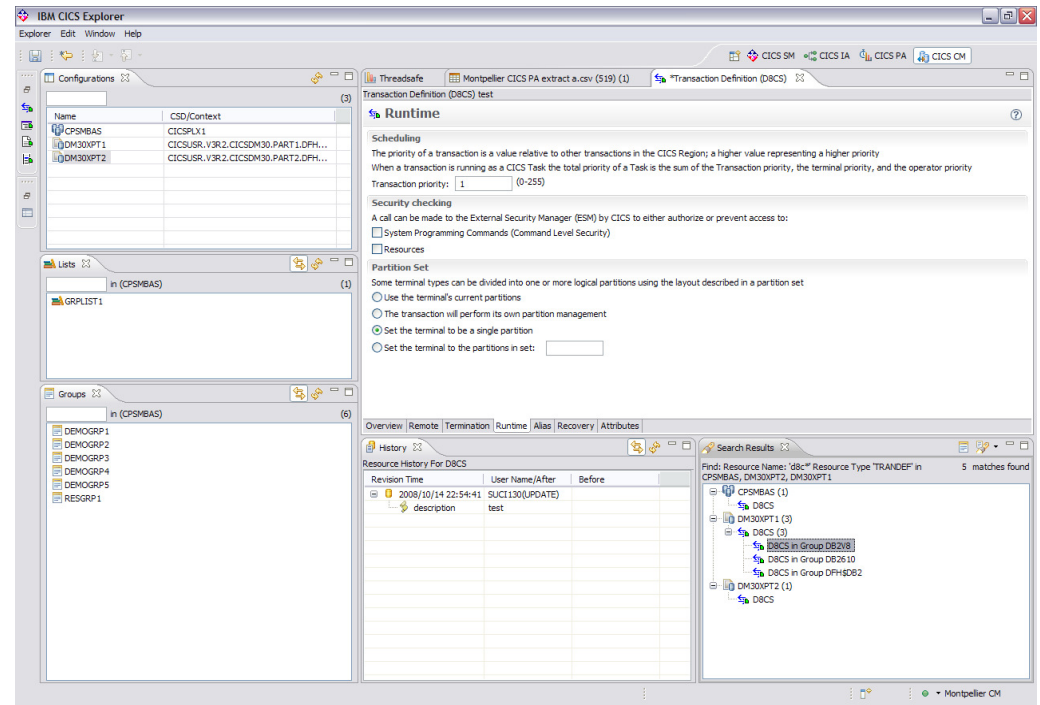


### Sound like you?

- New staff?
- Complex CICS resource definitions?
- Home-grown tooling?

### If so, you need ...

- Smart editors - no *magic values*
- Powerful search across multiple repositories
- Find orphans and duplicates
- Cleanup and cold-start analysis



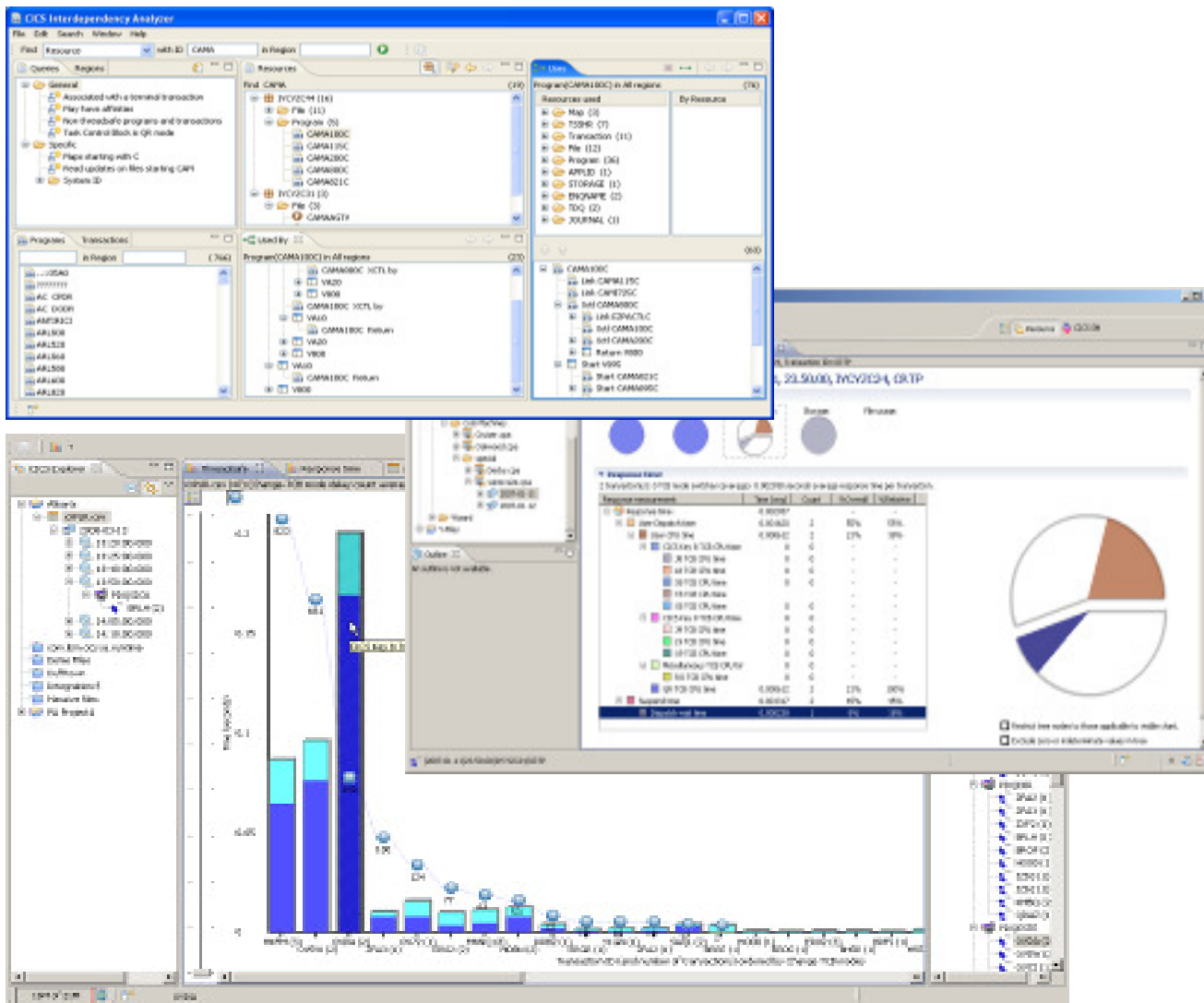
- Reduces risk of downtime
- Accountability and control
- Reduce administration and tool maintenance costs





# Increase productivity with integrated tools

*CICS Interdependency Analyzer, Configuration Manager, Performance Analyzer*



- Reduced risk when changing complex applications
- Effective performance analysis saves MIPs and reduces costs
- End-to-end accountability



# Reduce CICS CPU usage with Threadsafe

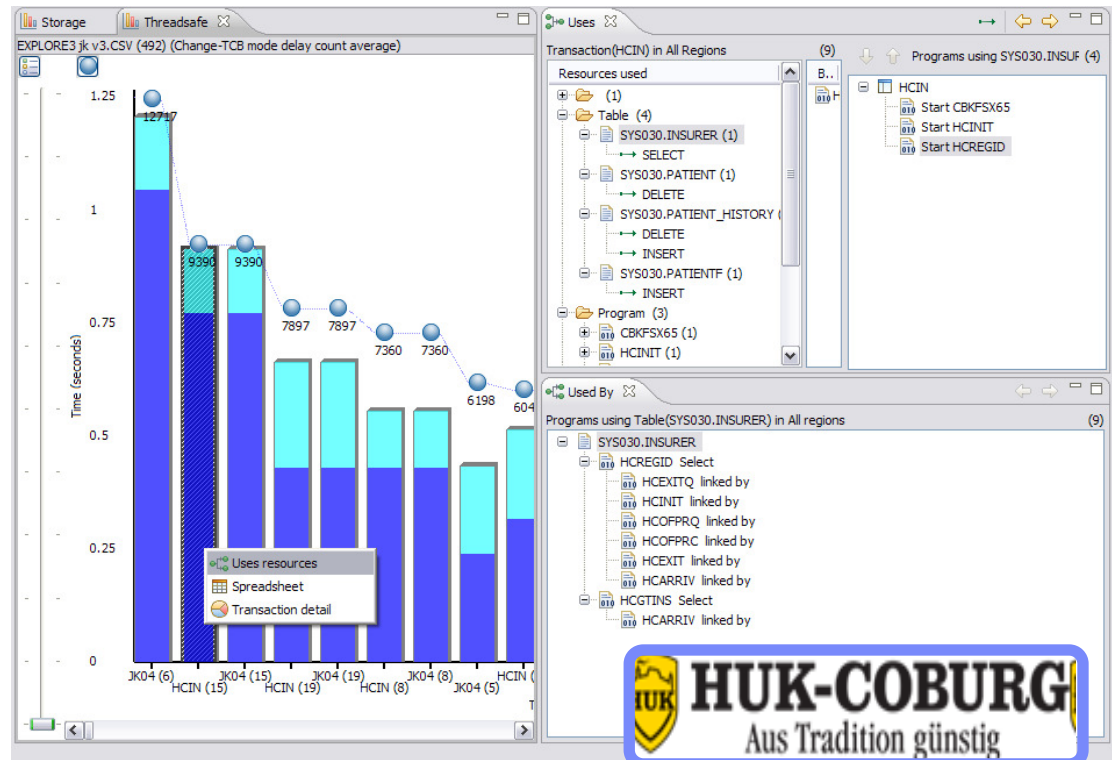
*CICS Interdependency Analyzer, CICS Performance Analyzer*

## Problem

- **Need to access more functionality and spread out its data processing load**
- **Reduce CPU usage to cut operating costs**

## Solution

- **Intuitive views**
- **Task-oriented approach, e.g. Threadsafe Analysis**
- **Drill-down into application structure**



- **Reduces CPU usage**
- **Save real money**



## Threadsafe - DEMO

**Click to play  
CICS Threadsafe  
demo from local file**

**Click to play  
CICS Threadsafe demo  
from YouTube**

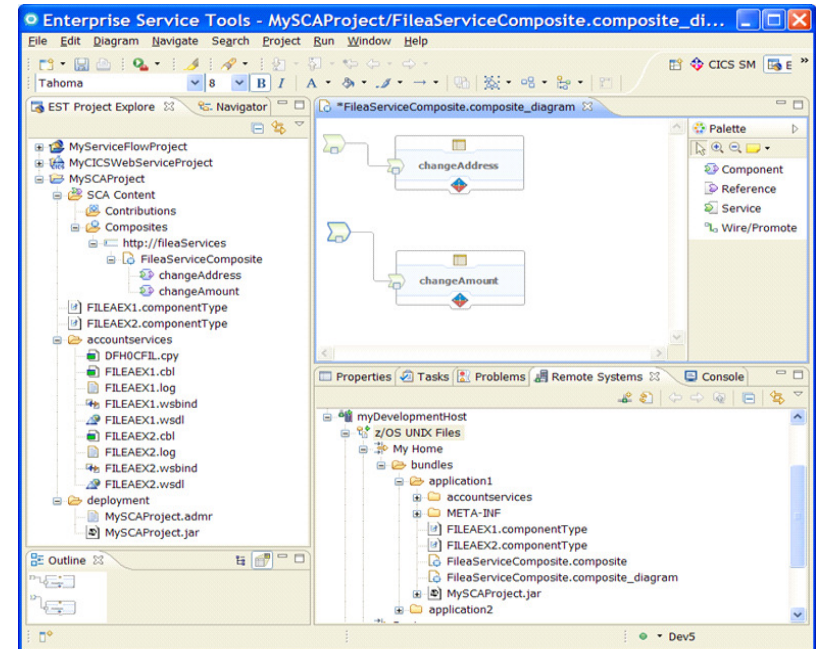
**YouTube link** [http://www.youtube.com/watch?v=3srq6YW\\_IUw](http://www.youtube.com/watch?v=3srq6YW_IUw)



# Accelerate development with open standards

*Rational Developer for System z*

- **Consolidate and standardize on a single multi-language development environment for CICS**
  - *Web Services*
  - *Service Flow Feature*
  - *SCA*
  - *COBOL and PL/I*
  - *Java*
  - *EGL*
  - *Debug and Fault analysis*
  - *File Management*
  - *CICS Explorer and CICS Tools*





# Available CICS Explorer Plug-ins

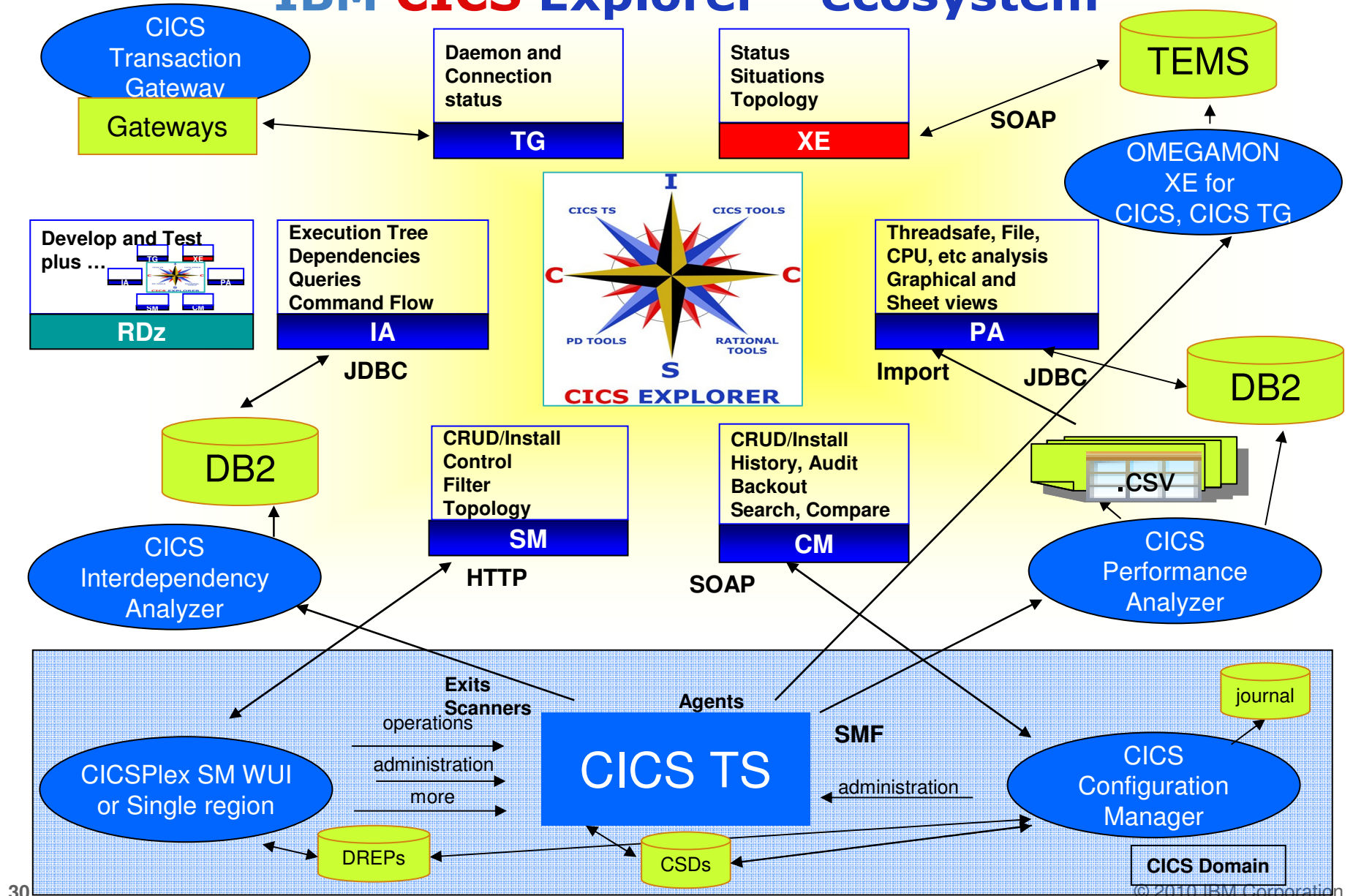
- **Base (SM)**
  - CRUD, Install, Control, Filter, Topology, Events, Bundles
- **CICS Performance Analyzer V3.1**
  - Threadsafe, File, CPU, etc analysis, Graphical and Sheet views
- **CICS Interdependency Analyzer V3.1**
  - Execution Tree, Dependencies, Queries, Command Flow, Natural & ADABAS
- **CICS Configuration Manager V2.1**
  - CRUD, Install, History, Audit, Backout, Search, Compare
- **CICS Transaction Gateway V7**
  - Daemon and Connection status
- **OMEGAMON XE for CICS V4.2**
  - Status, Situations, Topology
- **Rational Developer for System z V7.6**
  - Developer views, SCA

<http://ibm.com/cics/explorer/download>





# IBM CICS Explorer™ ecosystem





# What else is new in CICS TS V4.1?

## CICS Explorer

- Enhanced CICSplex SM workload management
- New SPI commands for managing the CSD
- Discovery Library Adapter
- Improvements to XML parsing in CICS
- Large file hosting
- Performance Improvements
- IPv6
- IPIC Transaction Routing
- MQ Group attach
- Application Bundles

**“Faster and easier to respond to change”**

## Business event processing

### Atom feeds

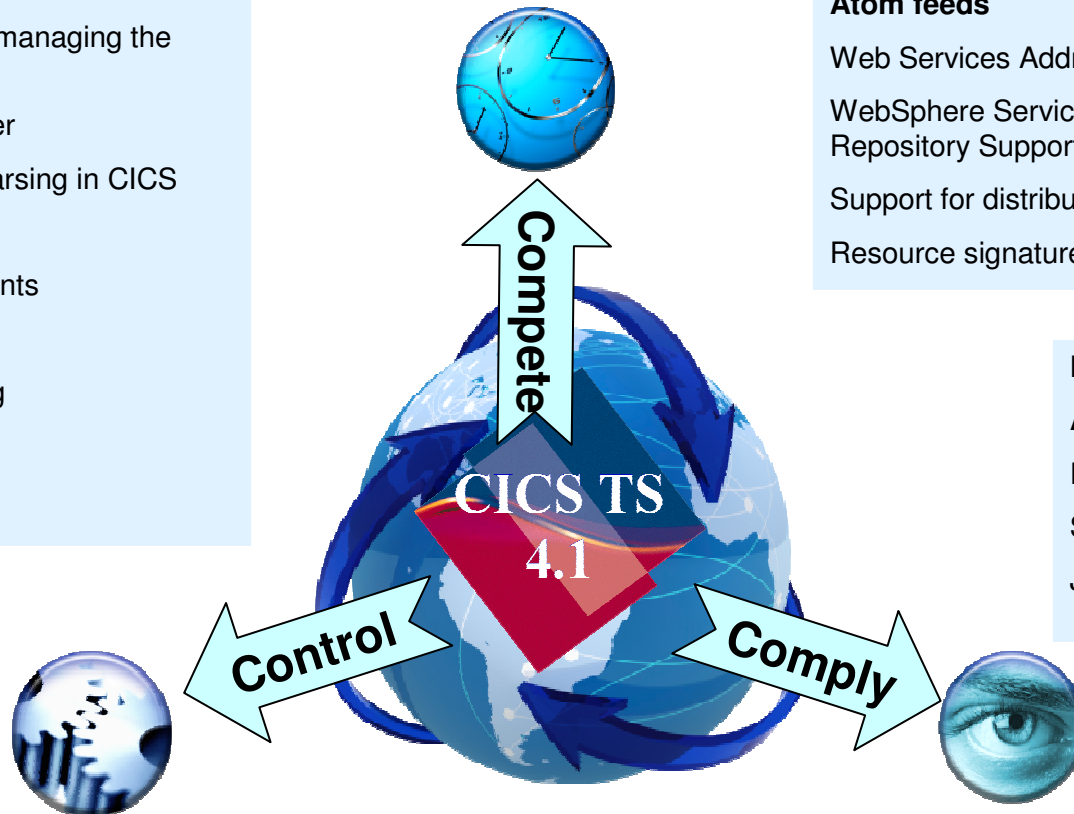
- Web Services Addressing
- WebSphere Service Registry & Repository Support
- Support for distributed identities
- Resource signatures



## Business event processing

### Atom feeds

- RESTful interfaces
- Service Component Architecture
- Java 6



**“Greater efficiency and reduced costs”**

**“Real-time visibility for smarter decisions and actions”**

<http://ibm.com/cics/tserver/v41/>



## Call to Action

- **Learn more about CICS Explorer**
  - Read the [New CICS Explorer Redbook - SG24-7778-00](#)
  - Request a [CICS Smart Seminar](#) from your IBM account rep
- **Start using CICS Explorer**
  - Download from <http://ibm.com/cics/explorer/download>
- **Extend the value of the CICS Explorer**
  - Move to CICS TS V4.1
  - Add CICS Tools and other plug-ins
  - Build your own plug-ins





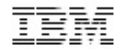
## Summary

- **Maintain Competitive Edge & Compliance**
- **Reach Customers in New Ways**
- **Optimize Costs Through Efficiency**





# New CICS Explorer Redbook - SG24-7778-00



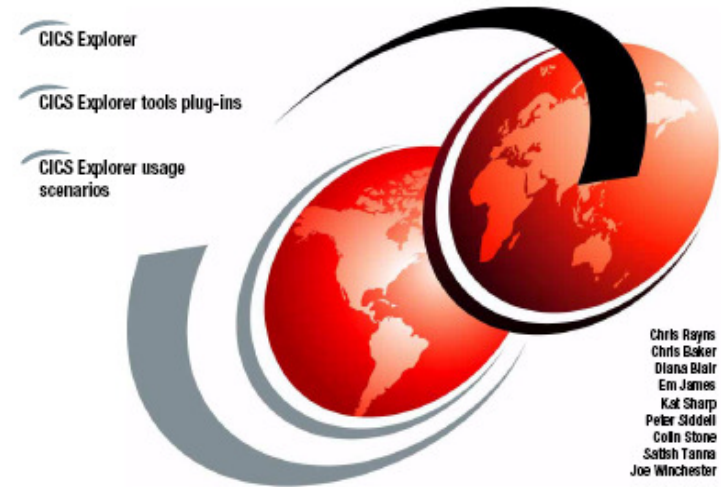
SG24-7778-00

- 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/abstracts/sg247778.html>

Coming soon: New Extending the CICS Explorer Redbook

Draft Document for Review August 26, 2009 10:50 pm

## CICS Explorer



ibm.com/redbooks

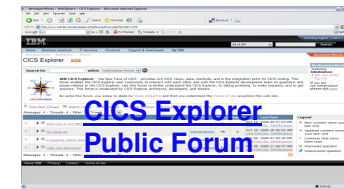
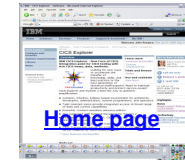
### Redbooks

*“RedBooks are very good, this one is just **Excelsissimus!** I can't wait for the final!”*  
customer feedback on public review draft



# CICS Communities and Information

- **CICS Transaction Server V4.1**
  - <http://ibm.com/cics/tserver/v41/>
- **CICS Explorer home page**
  - Remember this link [ibm.com/cics/explorer](http://ibm.com/cics/explorer)
- **CICS Explorer Forum**
  - <http://tinyurl.com/68bndw>
  - IBM developerWorks forum with FAQs, Links and resources, ISV Contributions, etc. Ask questions, suggest improvements, report problems, chat
- **New! CICS Hub on the Rational COBOL Café**
  - <http://ibm.com/software/rational/cafe/community/cobol/cics>
- **Twitter**
  - Subscribe to the [IBM System z channel](#) to get CICS Explorer news flashes
- **CICS Blog**
  - Comment and opinion at [TheMasterTerminal.com](http://TheMasterTerminal.com)
- **CICS eNews**
  - Subscribe for news about CICS and related products
- **YouTube channels**
  - [CICS Explorer](#) - Videos, demos and other cool stuff
  - [CICSFluff](#) - Other CICS videos





# CICS Development Technical Services

Helping to solve Business Problems and exploiting new Business Opportunities

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

**Consultants are now available via a funded services engagement directly from CICS development providing a complete range of CICS services - no one has more experience!**

- **For more information please contact: [CICSTDS@uk.ibm.com](mailto:CICSTDS@uk.ibm.com)**



## CICS Smart Seminars

**Free customised technical agenda of CICS TS and CICS tools products**

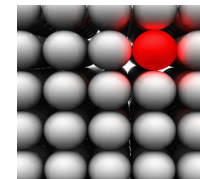
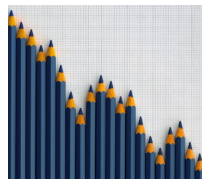
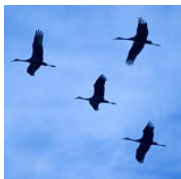
- Web Services, Events, Web 2.0, version upgrades, tooling etc.

**Targeted at AD, System Programmers and Architects at customers' own location**

**Demonstrates how to use the new features in the latest releases to leverage existing solutions**

**Can be tailored to customers interests**

- **For more information please contact: [cicssem@uk.ibm.com](mailto:cicssem@uk.ibm.com)**





## Sources of Info

### ▪ Web

#### – CICS Tools

- Home page [ibm.com/cics/tools/](http://ibm.com/cics/tools/)
- Trial download [ibm.com/software/os/zseries/trials/cicstools/](http://ibm.com/software/os/zseries/trials/cicstools/)

#### – CICS Explorer

- Home page [ibm.com/cics/explorer](http://ibm.com/cics/explorer)
- Download page <http://ibm.com/cics/explorer/download>

#### – CICS TS home page [ibm.com/cics](http://ibm.com/cics)

### ▪ Demos and animations

#### – CICS Explorer demo - featuring Threadsafe Analysis using the CICS PA and CICS IA perspectives - <http://www.youtube.com/watch?v=Jk3Ydvl8lno>

#### – CICS Explorer animation - <http://www.youtube.com/watch?v=-NzVwUi5lLw>

#### – CICS Transaction Server in your SOA - Great source of links to more CICS ecosystem information - [ftp://ftp.software.ibm.com/software/htp/cics/presentations/CICS\\_TS\\_in\\_your\\_SOA - Links - Issue 3.ppt](ftp://ftp.software.ibm.com/software/htp/cics/presentations/CICS_TS_in_your_SOA_-_Links_-_Issue_3.ppt)



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- 1** Make an Impact Now – learn how to work smarter and optimize your business performance – get the latest in WebSphere, BPM and Smart SOA technologies
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- 3** Get a year's worth of World Class education & a lifetime of contacts in 1 week!
- 4** Network with the Best in the Industry: Peers, IBM execs, SME's & Thought leaders.
- 5** Take advantage of this **exclusive Offer TODAY** at **[ibm.com/impact](http://ibm.com/impact)**

Offer expires February 28<sup>th</sup>, 2010



# Let's Build a Smarter Planet on System z

