



IBM Software Group

Announcing New Updates to IBM's CICS Portfolio

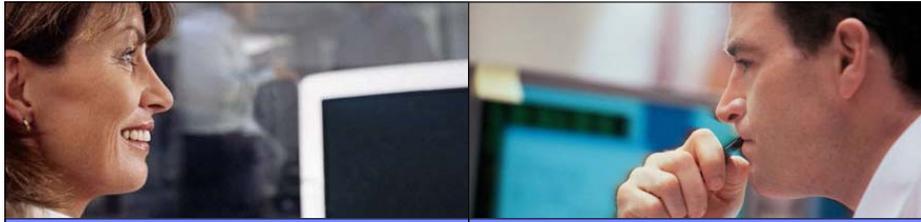
November 11, 2004



ON DEMAND BUSINESS™

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What's on the Minds of 450 of the World's Leading CEOs



CEO needs

- **Revenue growth** with cost containment
- Key competency: **responsiveness**
- Critical success factor: enable **effectiveness of people**

Source: CEO Study of 456 WW CEOs IBM Corporation - Feb 2004

CIO challenges

- Aligning IT and business goals to **grow revenue and contain costs**
- Building **responsiveness** and **agility** into the organization through IT
- How can IT help **enable people and teams to be more effective**

Source: Operating Environment Market Drivers Study, IBM Corp. 2004

Common focus on flexibility and simplification

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Major Points:

IBM has done primary research to understand the needs of our customers...

CEO Needs:

IBM conducted a survey earlier this year to find out what was on the minds of CEOs. The study — the first of its kind ever done by IBM — was conducted by BCS's Strategy & Change practice and Institute for Business Value, together with The Economist and Nikkei Research.

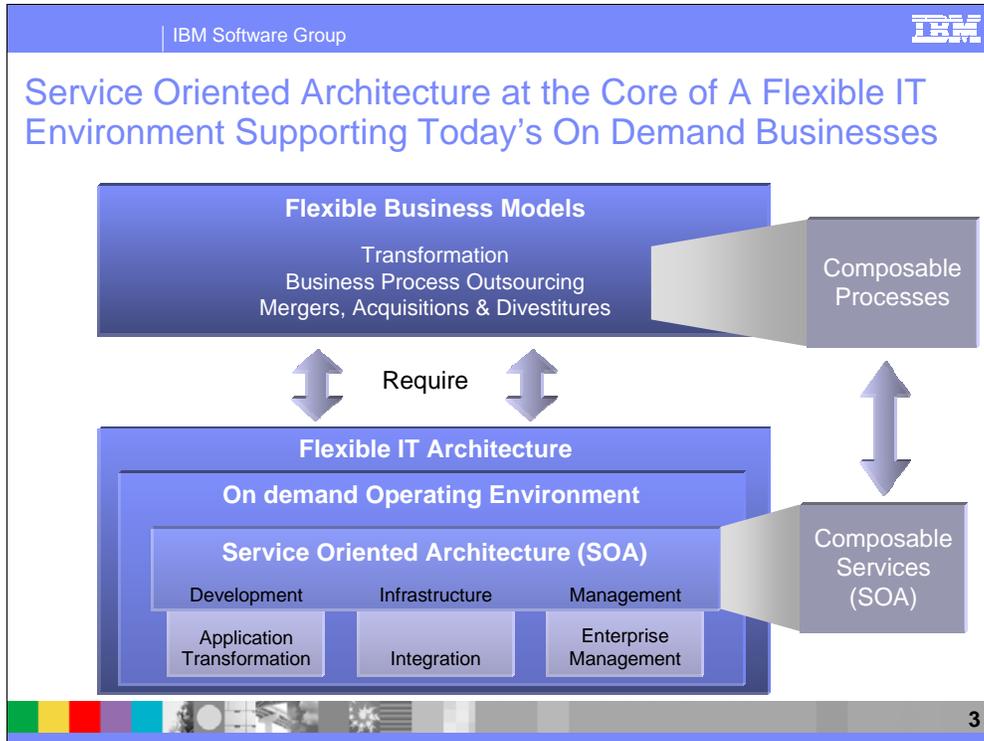
It's official: Growth is back! over 450 CEOs participated. The study revealed that growth is a top concern among CEOs; it also found the people are a top priority, they feel that their organizations are too rigid; that China is a key market, and that they need to accomplish the 'transformation' to achieve this in the next 5 years.

CIO's Challenge:

This information was culled from the OE Market Drivers study. The data supports the challenges that CIOs are trying to address daily

Segue:

The rest of the presentation will tie back to these recurring themes (CEO needs).



The focus of CICS TS V3.1 is to deliver a set of capabilities which provide customer value by enabling business flexibility through IT simplification. These capabilities are represented in the following themes:

- Application Transformation enables enhancement of existing applications and construction of new applications, using contemporary programming languages, constructs and tools
- CICS Integration enables re-use of CICS applications, within flexible IT infrastructure, via standard APIs and protocol
- Enterprise Management enables effective management of large runtime configurations via modern user interfaces, so that demanding service level objectives can be met.

These align with the building blocks of SOA.

From CEOs: “Now It Is About Growing The Top Line While Keeping The Bottom Line In Check.”

Source: CEO Study of 456 Global CEOs, IBM Corporation, Feb 2004

IT Imperatives

Support the growth agenda –
Improve flexibility and
responsiveness

Keep costs in check – Do
more with less

Driving Need to Transform Existing Applications

- Extend existing applications to new audiences and opportunities
- Exploit existing resources and skills
- Improve performance of existing workloads for faster response times and reduced costs
- Improve system management to enable management of more with less
- Simplify the development process to reduce application development costs and time to deployment



“By exploiting the next generation of integration tools, enterprises can **liberate decades' worth of legacy value.**”

InfoWorld: Tapping Into Big Iron, Eric Knorr, March 29, 2004

•Considering what customers have asked for, they are looking to redefine their applications quickly and effectively to meet their customer demands. There is a need for rapid business process adaptation and reshaping. Application maintenance consuming 60-80% of IT budgets and staff turnover or retirement lessens individual programmer familiarity with existing systems, application maintenance efficiency is key driver.

•There is also a need to meet increasing development workloads. The growth in complexity of development platforms and integration needs will force organizations to turn away from code-centric development practices in exchange for more efficient development paradigms. They need better tooling to deliver more effective and efficient development processes.

•Industry adoption and proliferation of Web Services capabilities into development platforms and tools are making it easier for companies to adopt a service-based development approach. The need for richer than HTML experiences and disconnected operations will lead most companies to adopt multiple user interfaces delivery architectures

•Finally, Because of recent pressures for cost reductions and market demand for better processes, we expect continued pressure from business executives to switch to new, business-differentiating activities. There will be a continued strong drive from business for process improvements.

•Need for rapid business process adaptation and reshaping

- Application maintenance consuming 60-80% of IT budgets
- Staff turnover/retirement lessening individual programmer familiarity with existing systems, application maintenance efficiency is key driver
- Purging dead wood from application portfolios and streamlining and modernizing the remainder of the applications
- CIO's looking to mine for resources, funding and credibility
- CIO's who can quantify and align IT spending to business unit see significant change in role from techno spender to guiding senior executives on how to spend dollars wisely

•Need to meet increasing development workloads

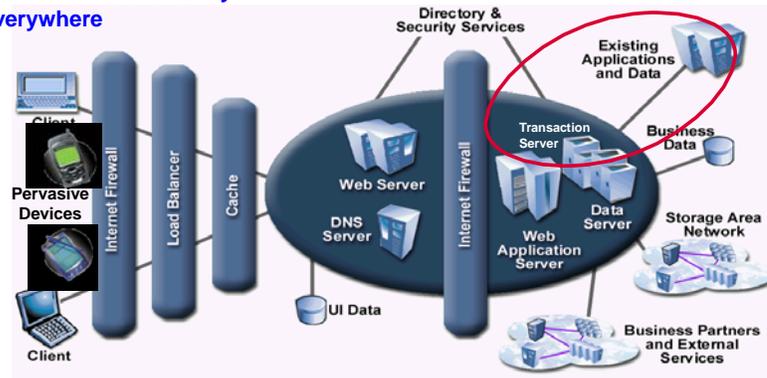
- The growth in complexity of development platforms and integration needs will force organizations to turn away from code-centric development practices in exchange for more efficient development paradigms
- Industry adoption and proliferation of Web Services capabilities into development platforms and tools are making it easier for companies to adopt a service-based development approach
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•Continued pressures for cost reductions and market demand for better processes

- Looking for cost savings by managing business processes better
- Important consideration is the business process rather than the best architecture

- ✓ Over 30 years and \$1 Trillion invested in Applications ... IDC
- ✓ Over \$1 trillion processed/day
- ✓ Over 30 billion transactions/day
- ✓ CICS is everywhere

CICS Today



Among the highest revenue earning software products in the world

For over 30 years, CICS has led the way in the implementation of new technology to support the transaction processing of your mission critical business applications.

Many of today's largest enterprises, having assessed the opportunities and advantages presented by e-business technologies are now aggressively and decisively implementing e-business solutions to gain advantage in the marketplace.

An enterprise moving to the e-business approach will be looking to build new applications as well as to extend their existing, proven, core business applications. This new version of CICS TS provides a platform from which an enterprise can evolve towards the adoption of e-business exploiting all the advantages of the evolutionary approach while capturing new opportunities derived from the latest industry-standard e-business technologies.

Business today relies upon
the processing of information
and data from disparate
sources, seamlessly, quickly
And efficiently.

These processes have evolved
over the years, yet are still
based around the premise of a
transaction being a fundamental
Unit of business.

CICS TS has developed into an
advanced solution to satisfy the
New and changing ways
business works.

IBM Software Group IBM

Announcing CICS Updates To Enhance Ease of Integration and Performance

CICS Transaction Server V3.1	
Increased ease of integration	<ul style="list-style-type: none"> ▪ Web Services capabilities to extend CICS applications to a Services Oriented Architecture ▪ Support for industry-leading SSL protocol
Enhanced application transformation	<ul style="list-style-type: none"> ▪ Ability to leverage single development tool for application transformation and integration ▪ Optimized CICS data exchange capabilities
Improved performance & system management	<ul style="list-style-type: none"> ▪ Extension of CICSplex SM Web User Interface ▪ Improved workload throughput ▪ Enhanced C/C++ programs performance
CICS Transaction Gateway V6.0	
Enhanced performance and scalability	<ul style="list-style-type: none"> ▪ Performance optimizations reduce CPU overhead ▪ Vastly improved Scalability and Availability on z/OS
Improved systems management and security	<ul style="list-style-type: none"> ▪ More functional and integrated administration interfaces ▪ Enhanced SSL support and z/OS security integration

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•CICS Transaction Server V3.1 provides capabilities to enable CICS-based applications to be integrated with a Service Oriented Architecture (SOA), enabling them to be exposed as Web Services. CICS has the ability to act as a Web Services service provider and service requestor which means it can be seen as a full participant in this B2B world.

•With this enhancement CICS is protecting investments in applications and removing the need for customers to do unproductive redesign and recoding of applications. Support in this area of the CICS product demonstrates our continuing support for traditional CICS application development. It provides enhanced performance and reduced costs for these workloads

•The CICSplex System Manager is an integral part of CICS TS. Its role is to reduce the complexity of management of CICS systems by presenting them as a simple and integrated whole. It integrates all the major CICS management functions into one interface. It cooperates with Tivoli products to meet the need to integrate management and automation of CICS with z/OS and the network. This release continues the strategic themes for systems management of integration, simplification, monitoring and automation.

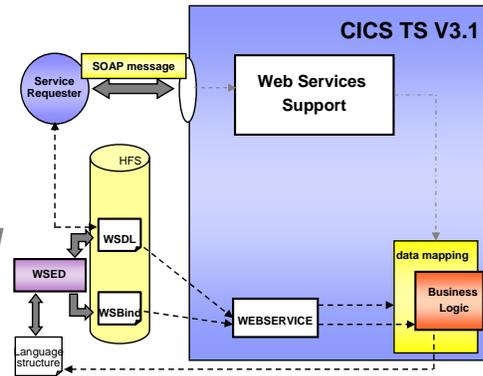
New in CICS Transaction Server V3.1 - Increased Ease of Integration

Exposure of CICS-based applications as Web Services for integration in a Service Oriented Architecture (SOA)

- Enables standards based interfaces via Web Services
- Provides a simple method for re-factoring CICS applications
- Allows CICS to be both a Web Services provider and requestor

Support industry leading SSL protocol

- Enables fine-tuned control of network security
- Provides a faster and more comprehensive security solution through exploitation of advanced z/OS security features



CICS Transaction Server V3.1 provides capabilities to enable CICS-based applications to be integrated with a Service Oriented Architecture (SOA), enabling them to be exposed as Web Services. CICS has the ability to act as a Web Services service provider and service requestor which means it can be seen as a full participant in this B2B world.

By allowing CICS applications to be wrapped in this way and exposed as services, it easily enables new interoperability between these applications. This provides services to enable virtual enterprises to link heterogeneous systems as required. Examples include mergers, where the resulting enterprise must integrate disparate IT systems and business processes, or the combination of the travel industry and pervasive computing, when a travel application can be exposed as a service and made available for use by various devices in a service-oriented environment.

Web Services provide standards-based interfaces to software functionality. Each Web Service describes how other systems, known as Web Service consumers, can connect to it and exchange information with it. Therefore, the consumers need have no knowledge beforehand about a Service, other than where to find it and that it is based on the common Web Services standards. This approach enables software developers to focus on the business issues not the architecture.

To ensure it is relatively simple to transform an existing CICS application into a Web Service, there is an application development capability supplied called CICS Web Services Assistant. This support is provided for COBOL, C/C++ and PL/I thus ensuring traditional program languages are able to participate and deliver immediate value to your existing application set. Given the existing investment customers have made in CICS business transactions, this ability to easily leverage them in new business processes is of huge value to the customer.

These capabilities should be seen as a major advance over the SOAP for CICS feature delivered on CICS TS V2. With the provision of workload distribution and resource management facilities for this new workload, it ensures it receives the qualities of service expected for a CICS function.

To help with best practice, a new sample application is provided which illustrates how to code and implement a Web Service application. This ensures a customer business can receive immediate value from this ability.

Web Services Helps Charles Schwab Respond to Market Conditions and Customer Needs

Business Challenge

Capture a new market opportunity by offering independent consultation and advice on a fee basis, leveraging existing IT assets

Solution

Partnered with IBM to build a services oriented architecture

Benefits

Shortened time to market for new service, minimized impact to existing applications and enabled them to leveraged their existing IT investment and skills



"We need IBM to enable CICS as a service provider and eventually as a consumer and look forward to the day when CICS is fully Web Services enabled."

– Charles Schwab team

Top financial services firms – 8 million active accts, \$758 billion in customer assets, CICS is a key part of their infrastructure

Web Services Provides Santa Clara County (SCC) Criminal Justice Information System a Face Lift

Business Challenge

Provide an easy-to-use, secure, industry-standard way for customers to access Criminal Justice Information Control System (CJIC) data.

Solution

Evolve existing CICS-based transaction services to be web services and allow them to be accessed using SOAP. The new SOAP for CICS feature is being used as the middleware[®] to SOAP enable the transactions to enable deployment on CJIC's z/OS system



Benefits

New transaction services are managed by SCC's existing S/390 skilled staff and its users now have a fast, reliable system from which to access the information they need



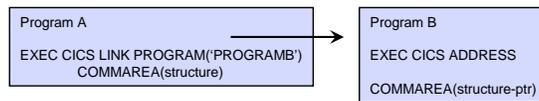
The Criminal Justice Information Control System (CJIC) is Santa Clara County's criminal case history and tracking system.

New in CICS Transaction Server V3.1 – Enhanced Application Transformation

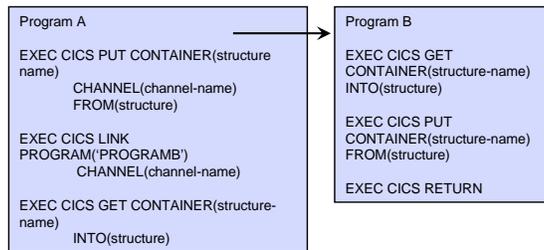
Optimized data exchange between CICS programs

- Offers more flexible and easier to use programming interface
- New style not subject to the traditional 32KB size restriction
 - Faster transmission times
 - Better able to deal with larger payload associated with modern Messaging techniques such as XML

Existing application with COMMAREA



Changed application using Channels



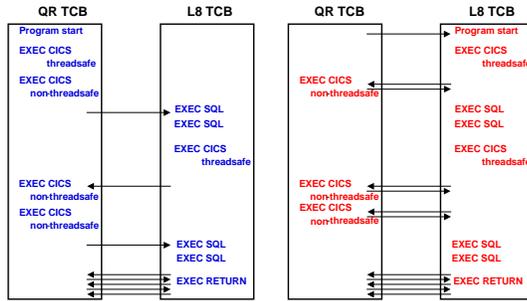
New in CICS Transaction Server V3.1 – Improved Performance and System Management

Enhanced C/C++ programs performance

- Allows customers to exploit features of the new C++ compiler
- Makes CICS a more attractive deployment environment for C/C++ and Java Programs

Enhanced Open Transaction Environment (OTE)

- Delivers improved CICS workload throughput, improving transaction performance
- Enables workload balancing across the system, maximizes resource utilization
- Reduces need for cloning of CICS regions, simplifying system management



The program for transaction BLUE is defined THREADSAFE , API= CICSAPI

The program for transaction RED is defined THREADSAFE, API= OPENAPI

Southern Californian Edison Improves System Management

Business Challenge

Reduce the cost of managing IT environment

Solution

Leveraged the CICS Web User Interface (WUI) to make network operations staff more aware of the state of our production CICS regions

Benefits

Helped reduce the time required for Technical Support staff to monitor and administer production systems



Southern California Edison (SCE) provides electricity service to over 11.5 million people throughout a 50,000 square mile service territory in Southern California. The company's services include generation, transmission, distribution and customer service.

Direct Connection or Web Service into CICS?

- Tightly coupled and loosely coupled connectivity solutions coexist to fully exploit the agility of an on demand operating environment
- Choice dependant on specific application requirements, for example:

Direct Connection

- High QoS Today
- Mature technologies
- Existing application interfaces
- Few application/system level changes required
- Good where application has fewer reusable purposes



Web Services

- QoS improving via standards
- Emerging technologies
- Web Services interface
- Some application/system level changes required
- Good where application has many reusable purposes

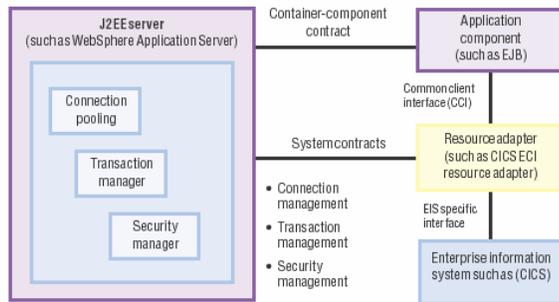
Exploit an appropriate set of complementary technologies

Fully integrate your CICS heritage

CICS Transaction Gateway V6.0

CICS Transaction Gateway Advantages

- High Performing – 1,000+ TPS on z/OS
- Secure – supports latest SSL encryption
- Scalable – multi-threaded technology
- Requires minimal or no changes to CICS systems and applications



CICS Transaction Gateway provides:

JCA resource adapters to CICS COMMAREA and CICS 3270 applications

Benefits of JCA include:

- ✓ Connection Management
- ✓ Transaction Management
- ✓ Security Management

CICS Transaction Gateway Version 6.0 Summary Statement:

Many businesses have a core of previously established, proven CICS business logic that they will want to leverage within modern WebSphere J2EE environments.

IBM CICS Transaction Gateway Version 6.0 provides high performing, secure and scalable access to CICS, requiring minimal changes to CICS and usually no changes to existing CICS applications.

It is supported by a number of tools within the IBM Software Development Platform, enabling a complete end to end IBM solution that can help can help minimize cost, risk and time to market of new applications.

JCA offers advantages in

Development- By giving your J2EE developers a standard interface to write to, with supporting tooling. And also as JCA programmatically takes care of:

- Performance
- Transactional
- Security

Qualities of service differ depending on version and platform of WebSphere Application Server

CICS ECI resource adapter

Deploy to any WebSphere Application Server on any platform

CICS EPI resource adapter

Deploy to WebSphere Application Server on distributed platforms

Distributed and z/OS WebSphere Application Server v5 now share common user interface and runtime components

JCA offers advantages in

- Development
- Performance
- Transactional
- Security

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V6.0 Enhancements

Qualities of Service:

The development lab has tested the product optimizations in the following scenarios.

- 1) Improved performance of data processing on z/OS provides maximum CPU usage saving of up to 40%.
- 2) Improved runtime performance on distributed platforms, provides up to a 15% CPU reduction.
- 3) Improved performance of data processing within the Java client, across all platforms, can provide up to 12% throughput savings.

In addition:

An option to (1) limit the number of EXCI pipes to one per thread, and (2) exploits the increased pipe limit in CICS TS V2 and above, considerably improves availability and scalability on z/OS.

The Native POSIX Thread Library for Linux (NPTL) support gives improved performance over Linux Threads out of the box and is more scalable at high thread utilizations.

Support for JCA v1.5 Transaction and Connection improvements, provides improved performance for J2EE applications.

Systems Management

A new normal shutdown mechanism ensures the integrity of all out-standing units of work.

Enhanced support for the configuration of multiple Gateway daemons provides improved system administration capabilities.

On the z/OS platform, the management of the CICS TG from SDSF provides better system administration capabilities. Direction of output to JES provides improved management of all runtime messages.

On the distributed platforms, there have been usability enhancements to the administration tool. It is now possible to specify a particular destination for both informational and also warning/error messages. The number and size of log files to be retained can also be configured.

The ability to run as a daemon process in UNIX and Linux environments, alongside APPC support for Linux on zSeries, has also been added.

Security

There is a new configuration option with the JSSE support for SSL connections to the Gateway daemon that allows the SSL cipher suite to be specified. This enables fine tuned control of the algorithms used for encryption of network data sent to the Gateway.

Additionally, on z/OS you can now store your SSL private keys and certificates within the RACF database and utilize hardware cryptography cards when using JSSE SSL.

Ease of Use

SMP/e installation on z/OS vastly simplifies the process of installing, migrating and applying corrective maintenance to the product.

Install Shield Multiplatform (ISMP) simplifies the process of installation and migration on distributed platforms by using an industry standard installation program. Previous scripting mechanisms have now been replaced with a single executable file, allowing quick and easy customization of the installation.

The new Eclipse based information center provides an improved user interface, which is standard across most new IBM software products. It provides enhanced search techniques, including the ability to search all installed Eclipse based IBM information centers in one search. It can be installed individually on users' client workstations, on a dedicated server, or viewed on-line from ibm.com.

Enhancements in CICS Transaction Gateway V6.0 Focused on *Four Key Technical Value Areas*:

Qualities of Service

- Performance enhancements through optimization of the product and via exploitation of the latest J2EE and Linux standards
- Considerable Availability and Scalability enhancement on our flagship z/OS platform

Systems Management

- Improved Administration of the connector through a more functional interface, better aligned with the native OS
- Problem Determination and Management has been enhanced through better recording and control of system information

Security

- Support for the Industry leading SSL protocol enables fine tuned control of your network security
- Exploitation of the advanced z/OS security features provides a faster and more comprehensive security solution

Ease of Use

- New, industry standard installation vastly simplifies the process of installing, migrating and applying maintenance
- Redesigned and searchable Eclipse-based information center provides a greatly improved interface for online documentation



Driving Enhanced Integration with WebSphere J2EE Based Application Environment

WebSphere Application Server V6 (announced October 6, 2004)

- Build Web Services and messaging applications with confidence and ease – easier to use JMS engine lets you seamlessly connect your applications to an Enterprise Service Bus
- Rapid development and deployment with ease of use enhancements such as Service Data Objects and Java Server Faces
- High availability services, including simultaneous detection and recovery capabilities

CICS Transaction Gateway V6

- Serves as primary J2EE connector to CICS COMMAREA 3270 CICS apps
- Delivers standard JCA interface and supports other language interfaces
- Connects WebSphere to all supported CICS releases

Supporting Application Transformation Tools

Three styles of transformation

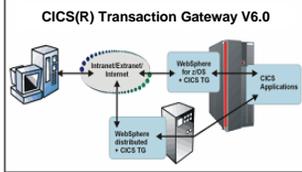
Transform User Experience

Enhance user interface and workflow for quick return on investment



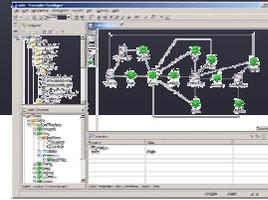
Transform Application Connectivity

Improve business processes and develop customer, partner and supplier relationships using Web services and Java connectors



Transform Application Architecture

Update and extend mission-critical applications as services, leveraging their core value in new ways



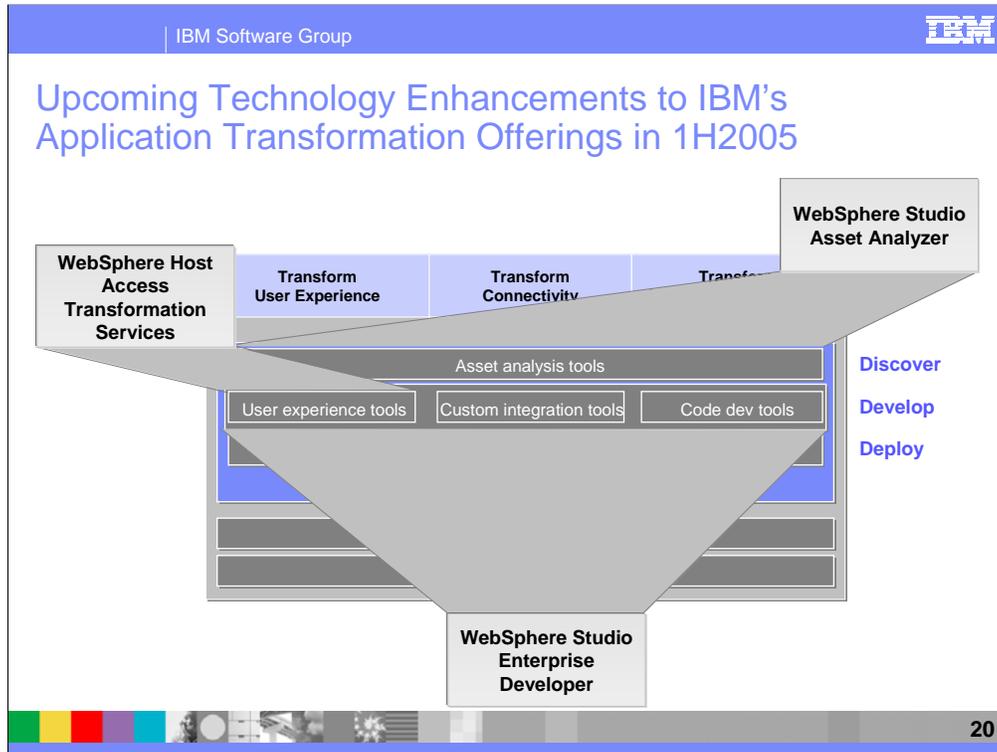
Single integrated delivery vehicle across application transformation styles

Create new business value from existing IT systems

Transform business-critical legacy processes into reusable, shareable business components

Integrate traditional zSeries and iSeries applications and new Java applications into an efficient mixed workload environment

Leverage existing enterprise skills and improve developer productivity



What is WSED?

A combination of modern application architectures, rapid application development and robust team support.
 Develop, debug and deploy Java, COBOL, & PL/I
 Intuitive, visual construction based on open standards
 Broad SOA support for Web Services and JCA
 Easy to learn, COBOL like language for rapid UI and Business development

What is HATS?

A rules-based Web-to-host transformation engine that:
 Provides customized access to host applications
 Dynamically creates a new Web HTML interface
 Improves navigation and productivity of host apps.

WebSphere Studio Enterprise Developer V6.0 ... April 2005

Service Flow Modeler (component of WSED) ... tech preview in April 2005 ... fully supported September 2005

WebSphere Host Access Transformation Services V6.0 ... February 2005

WebSphere Studio Asset Analyzer V4.1 ... March 2005

CICS Transaction Gateway V6.0 ... December 2004

Related releases:

Enterprise Cobol V3.4 ... March 2005

Enterprise PL/I V3.4 ... December 2004

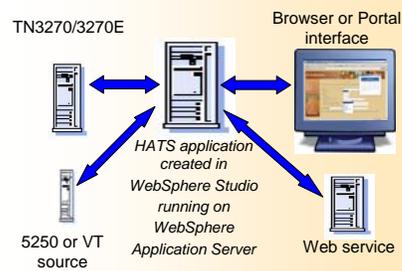
Performance Tester V6.1 2Q2005

WebSphere Studio Application Monitor V3.1 ... 10/29/04

Host Access Client Package V5.0 ... 10/22/04

Upcoming WebSphere Host Access Transformation Services (HATS) Enhancements

- Easier to use drag and drop screen customization
- Wizards to customize components and widgets
- Enhanced macro support with macro stepping
- Side by side preview of screens and HATS customizations
- JavaServer Faces support for easier Web page design
- BMS map importer for easy offline editing
- Improved 5250 subfile support



Host Access Transformation Services Benefits

- Increase productivity and reduce training costs. Convert green screens into intuitive Web interfaces
- Extend existing applications to new users, such as business partners, suppliers and customers
- Integrate traditional applications into enterprise portals. Provide a single, personalized point of access.
- Reduce development costs by avoiding rewrite of legacy applications.

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A rules-based Web-to-host transformation engine that:
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Usability/Ease of Use

- WYSIWYG arrangement of host components on page
- Macro Stepping
- Improved Subfile Rendering Algorithms
- Preview Screen as a Web Page in terminal
- Use default rendering when creating pre-filled transformations
- Enhanced visibility for Display Terminal in Studio
- Expand the attributes view for HATS components

Performance Capacity Improvements

- Identify Next Screens for a given Screen recognition
- Use of JDK 1.4 Regular Expressions to find Host components
- Exploit HOD V9 Native IO functions (NIO)

Reliability

- Integrated Studio InfoBundler
- Applet Redesign
- Display OIA information
- Automatic skip for blank screens

Capability

- BMS map importer
- Wizard to create custom components/widgets
- JSF support for Integration Objects

Documentation

- More visual HATS examples for Admin Guide
- InfoCenter enhancements
- Ongoing discussions with Beta customers

WebSphere v6 Platform Support

Portal Enablement for z/OS

Upcoming WebSphere Studio Asset Analyzer (WSAA) Enhancements

- Integration with other tools
 - Share WSAA application insight with WSED, Flashline Registry™, Relativity Technologies Modernization Workbench™, etc.
- Productivity and ease of use features
 - Report templates & printing/exporting
 - Source code library integration
- CICS V3 exploitation
 - Supports latest subsystems – CICS, WAS, DB2, IMS, WebSphere MQ

WSAA helps *analysts* and *developers* to

- find and understand existing enterprise assets
- enhance them
- connect them to Web-based infrastructures

WebSphere Studio Asset Analyzer Benefits

Transfer WSAA's application insight to other tools

- Reduce cost and risk by gaining application insight
- Speed productivity of new developers
- Impact analysis to determine all application components affected by a proposed change

What does it do?

Upcoming WebSphere Studio Enterprise Developer (WSED) Enhancements

- Single tool for all application transformation
- Modern architectural enhancements - Service Flow Modeler support
- Connectivity enhancements
- Support for existing customers
- CICS V3 exploitation – Support latest subsystems (CICS, WAS, DB2)
- Integration across the life cycle



WebSphere Studio Enterprise Developer Benefits

- Increased developer productivity
- Reduce cost and risk by enabling legacy assets to be used in SOA's
- Increase productivity by extending skill sets across the organization
- Enterprise Generation Language limits need for Java or traditional expertise

Connectivity enhancements

- WSDL automation from existing processing
- Support for new CICS WS run time marshallers
- XML based COBOL adapter enhancements
- JCA connectors supporting latest CTG

Support for existing customers:

- EGL support for VG based Web Transactions
- BMS Editor

Integration across the life cycle (WSAA integration)

What is WSED?

A combination of modern application architectures, rapid application development and robust team support.

Develop, debug and deploy Java, COBOL, & PL/I

Intuitive, visual construction based on open standards

Broad SOA support for Web Services and JCA

Easy to learn, COBOL like language for rapid UI and Business development

CICS V3 exploitation –

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Connectivity enhancements

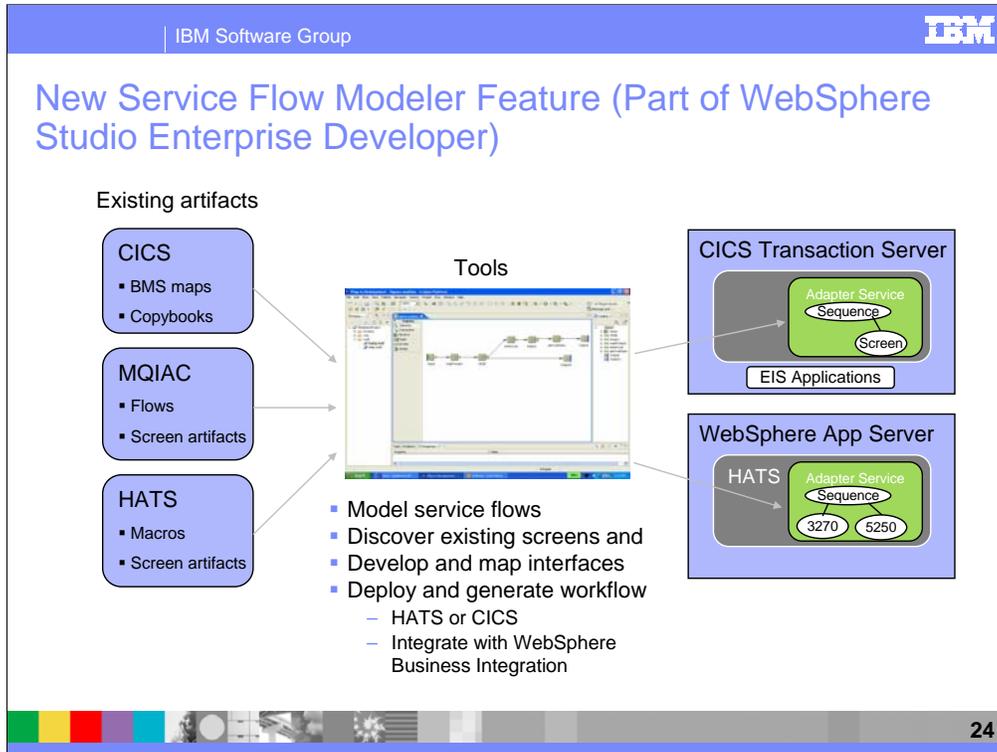
- WSDL automation from existing processing
- Support for new CICS WS run time marshallers
- XML based COBOL adapter enhancements
- JCA connectors supporting latest CTG

Modern Architectural enhancements

- Service Flow Modeler support (Preview)

Traditional support for:

- EGL support for VG based Web Transactions
- BMS Editor



Neo is a tool to provide web service interfaces to your existing CICS applications

The ability to expose screen interactions as web services

Import existing application artifacts

The ability to combine multiple transactions and screen interactions into a higher level service, representing a business process

The ability to deploy one service to multiple environments as web services

Neo represents the recombination and evolution of the HATS/HP and MQIAC tools

CICS and WebSphere Application Server

As compared to what is available today:

XML Enablement Tools

Wrap transaction-oriented applications into web services

1 transaction to 1 service operation

Deploy services to SOAP4CICS

Available in WSED

For More Information...

- CICS Transaction Server V3.1 Beta program in progress
 - ▶ 12 customers and 20 ISV's participating

- CICS Transaction Server V3.1 Announcing 30th November, 2004
General Availability, 25th March, 2005

- CICS Transaction Gateway Announcing, 30th November, 2004
e-General Availability, 10th December, 2004
General Availability, 14th January, 2005

www.ibm.com/cics

www.ibm.com/websphere/enterprisetransformation

