What is WebSphere?

Al Grega
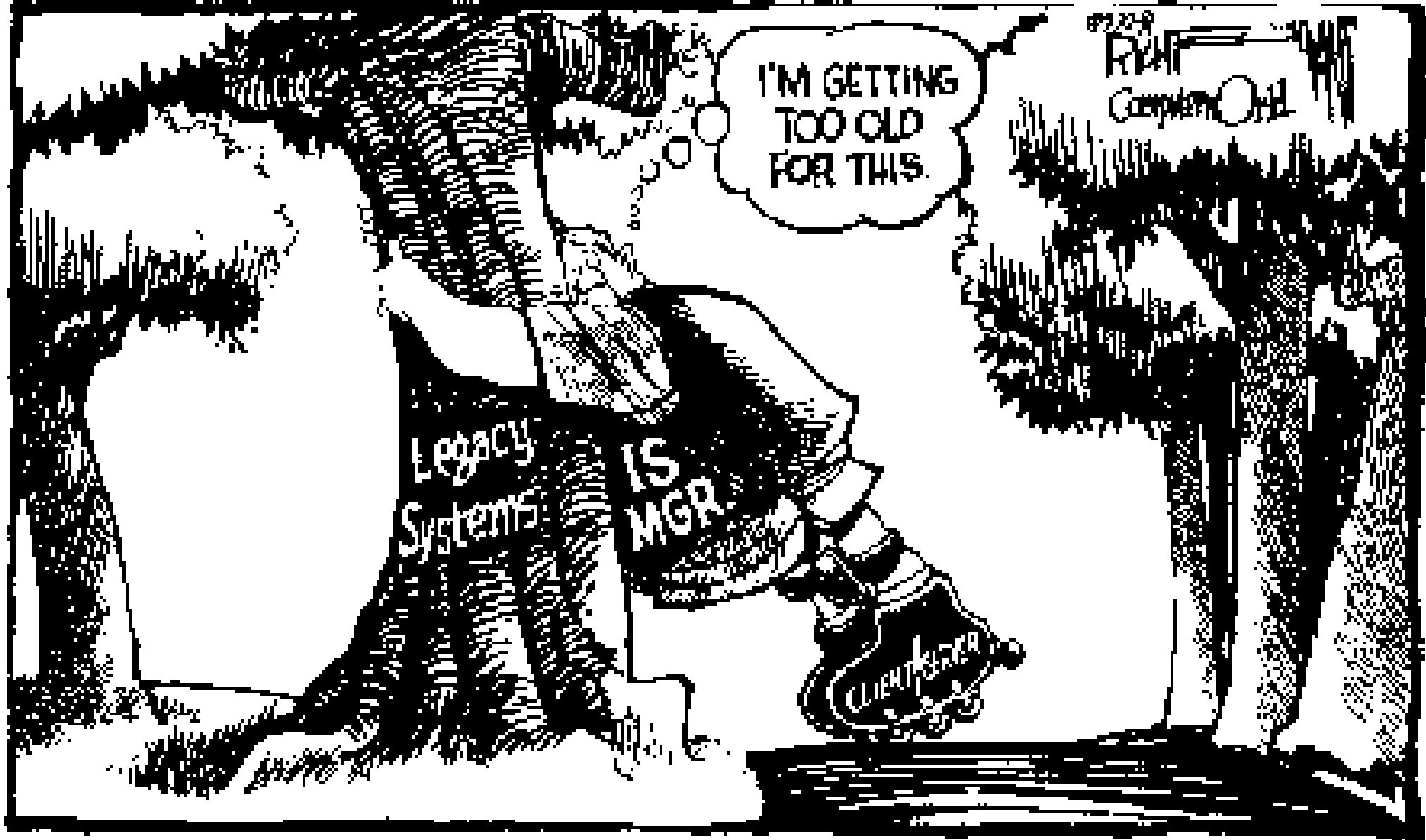**iSeries e-business Segment Manager**
amgrega@us.ibm.com

BM

Agenda

What are the iSeries e-business strategies

What is WebSphere?

The Road to e-business with WebSphere

Summary

IBM @ servers. For the next generation of e-business.
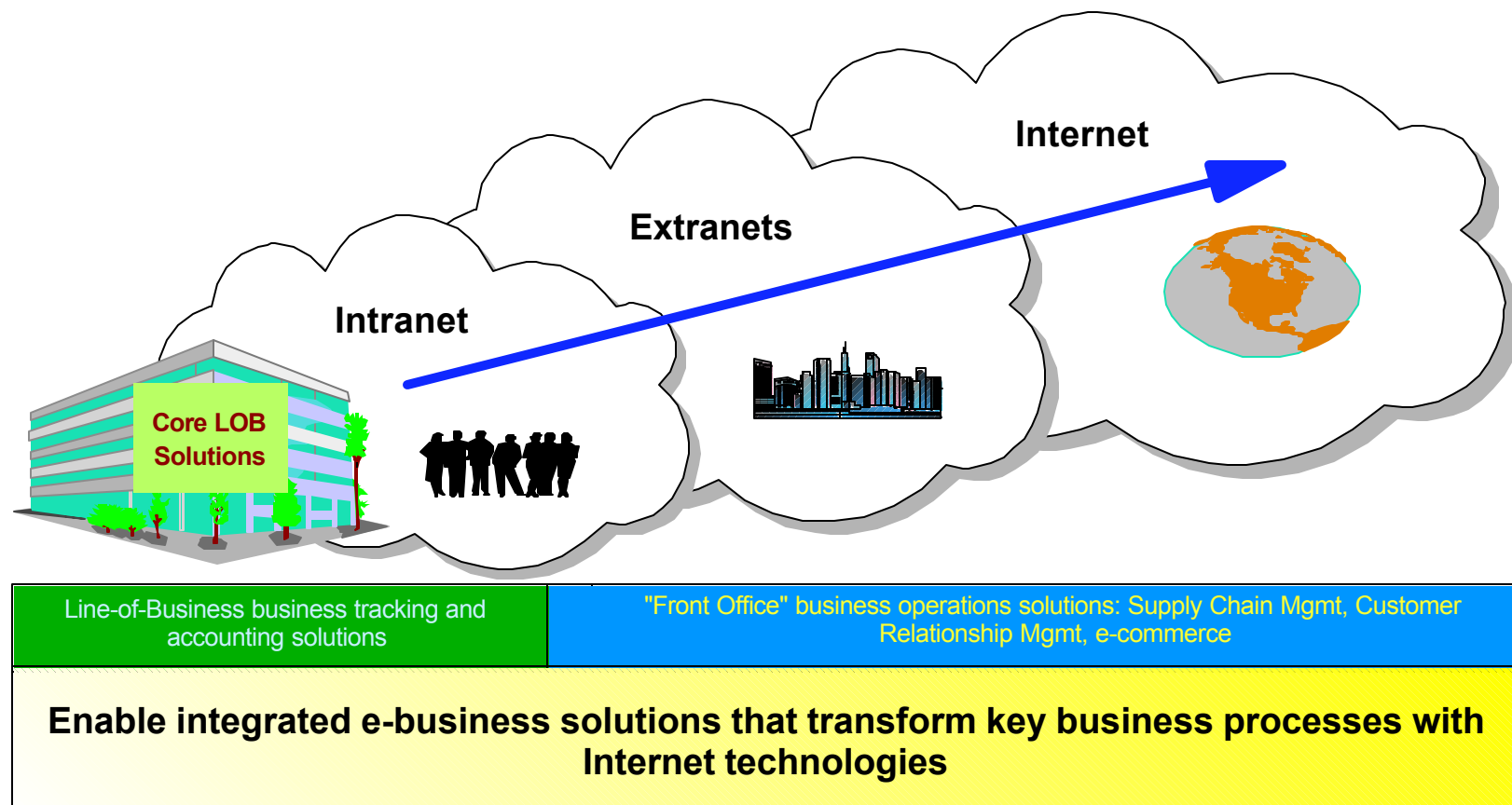
Slide 2

First it was Client/Server, now the Web!!!

e-business Strategies

#1 - Extend existing applications to the web

#2 - Build or buy new e-business solutions

Line-of-Business business tracking and accounting solutions	"Front Office" business operations solutions: Supply Chain Mgmt, Customer Relationship Mgmt, e-commerce

Enable integrated e-business solutions that transform key business processes with Internet technologies

WebSphere Market Momentum

- **35,000** Global customers

- **9,000** Partners (500% YTY)

- **1,300** Certified solution providers

- **5,000** Trained global integrators

- **1000** Partner/customer engagements via WebSphere Innovation Centers

- **9** Consecutive quarters of double-digit growth

- **2:1** Preference by CIOs over nearest competitor (Morgan Stanley Dean Witter survey of 150 CIOs from 15 industries - 47% WebSphere)

- **10x** Marketshare growth vs. nearest competitor

IBM @ servers. For the next generation of e-business.

WebSphere Developer Momentum

- **1,500,000** **Registered developers on IBM's developerWorks portal**

- **230%** **Year-to-year growth of active, registered developers**

- **130** **Registered WW user groups in over 40 countries**

- **20 Million** **WebSphere site page views (YTD)**

- **156 Million** **DeveloperWorks site page views this year**

- **300,000** **WebSphere software downloads (YTD)**

- **90,000** **Downloads of innovative technology on developerWorks**

IBM @ servers. For the next generation of e-business.

Agenda

What are the iSeries e-business strategies

What is WebSphere?
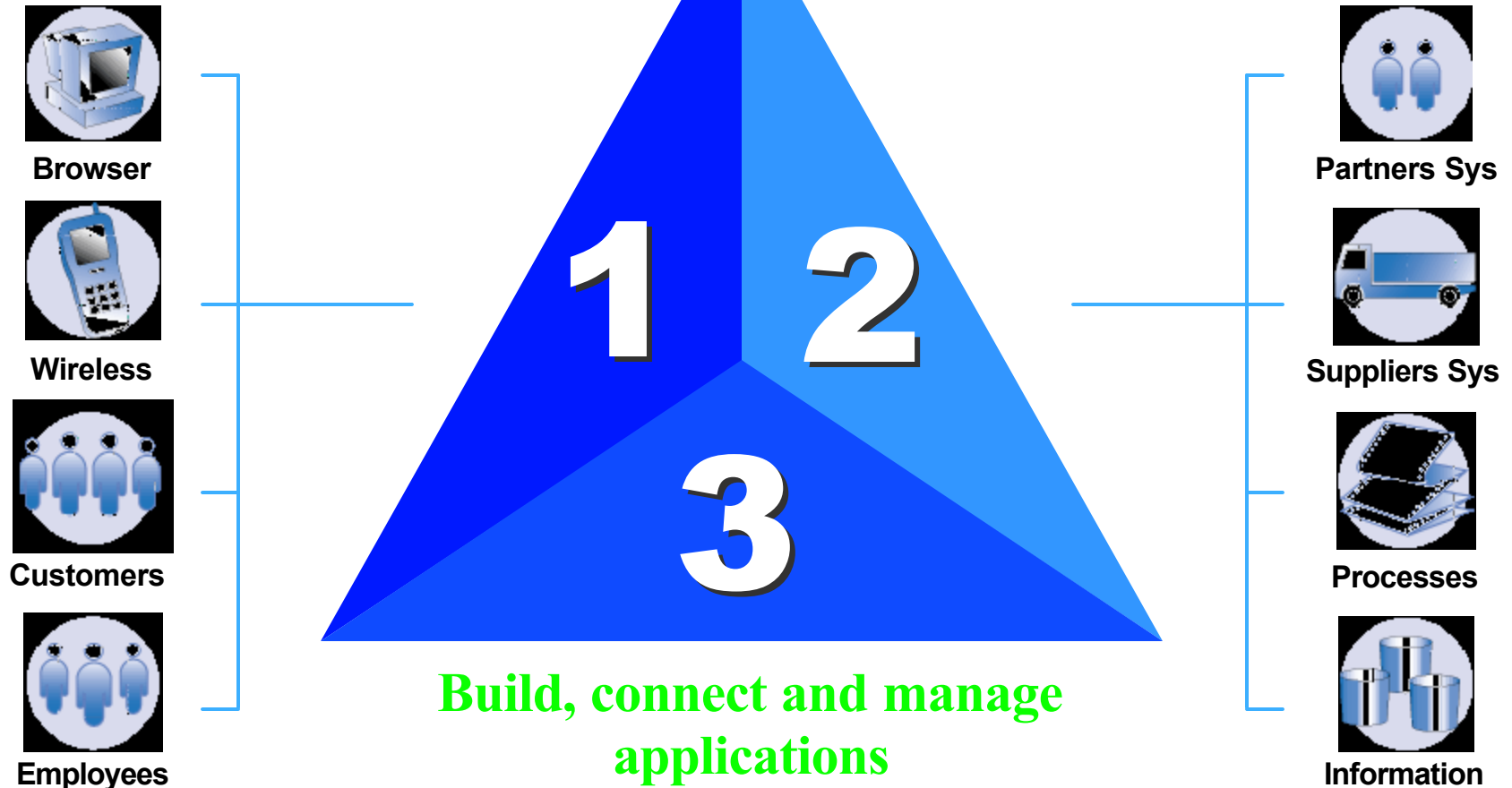
The Road to e-business with WebSphere

Summary

WebSphere fundamentally does three things!

iSeries 400

Provide any user or device streamlined access to customized content

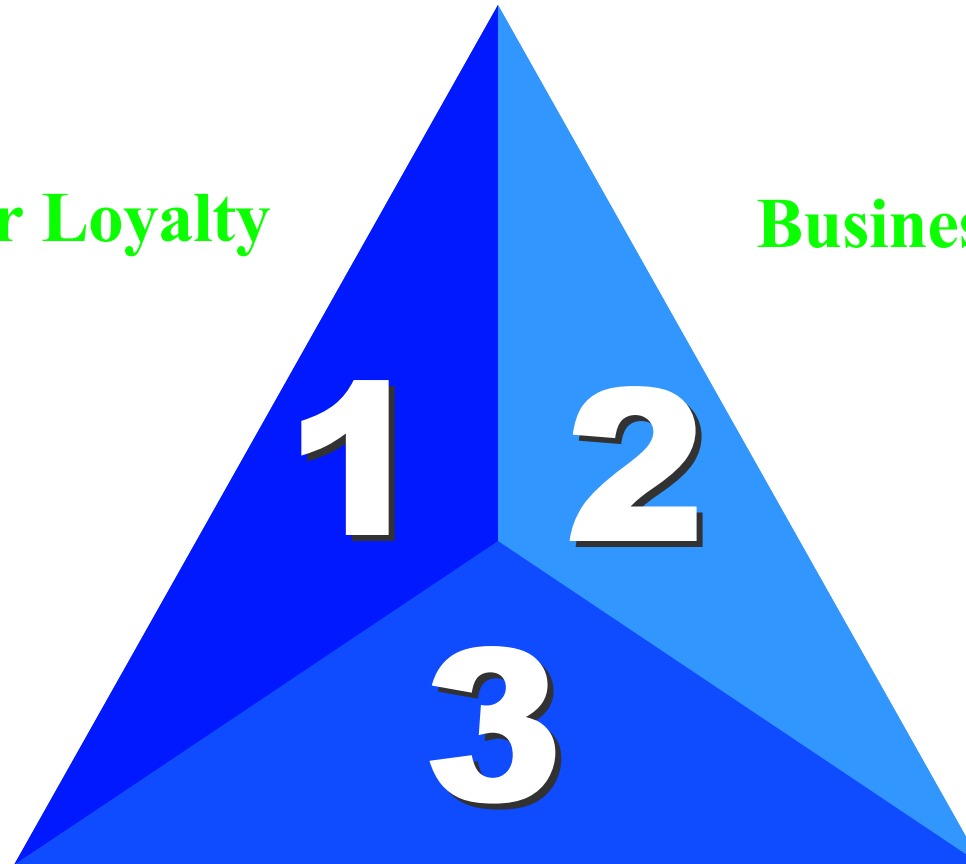**Integrate and automate business processes to maximize agility**

1 **2**

3

Browser

Wireless

Customers

Employees

Partners Sys

Suppliers Sys

Processes

Information

Build, connect and manage applications

IBM *@ servers. For the next generation of e-business.*

These three things deliver - Return on Investment

Customer Loyalty

Business Agility

1 **2**

3

Scalability and Productivity
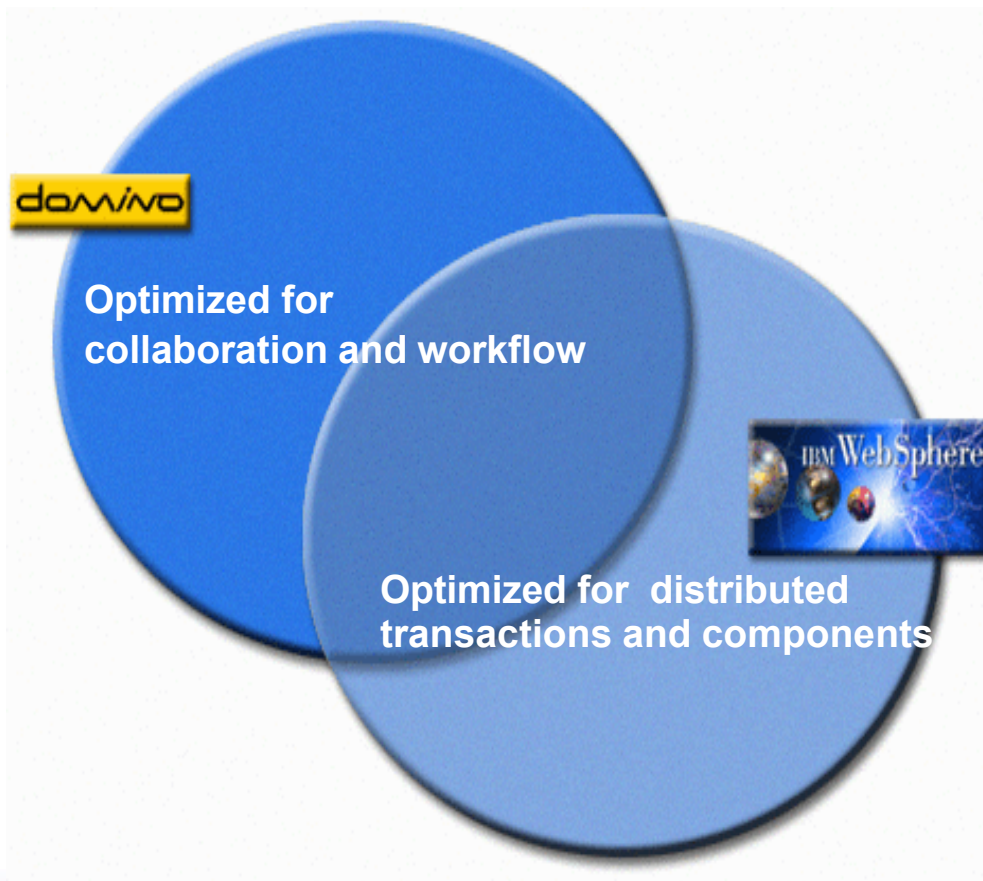
IBM *e* servers. For the next generation of e-business.

iSeries is a leading Domino server

...and provides excellent WAS integration

iSeries = Recognized as a leading Enterprise Domino server

- State of the Art collaborative environment
- Other Lotus products supported (iNotes, SameTime, QuickPlace & Domino Fax)
- Excellent Domino integration with WebSphere Application Server today

Optimized for collaboration and workflow

Optimized for distributed transactions and components

Dedicated Server For Domino

- iSeries Server for Domino
- Now supports WebSphere workloads
- <u>Integrated</u> on a single iSeries

servers. For the next generation of e-business.

Agenda

What are the iSeries e-business strategies

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The Road to e-business with WebSphere

Summary

IBM *@* servers. For the next generation of e-business.

What are the Options?

iSeries

Web Enabled Solutions

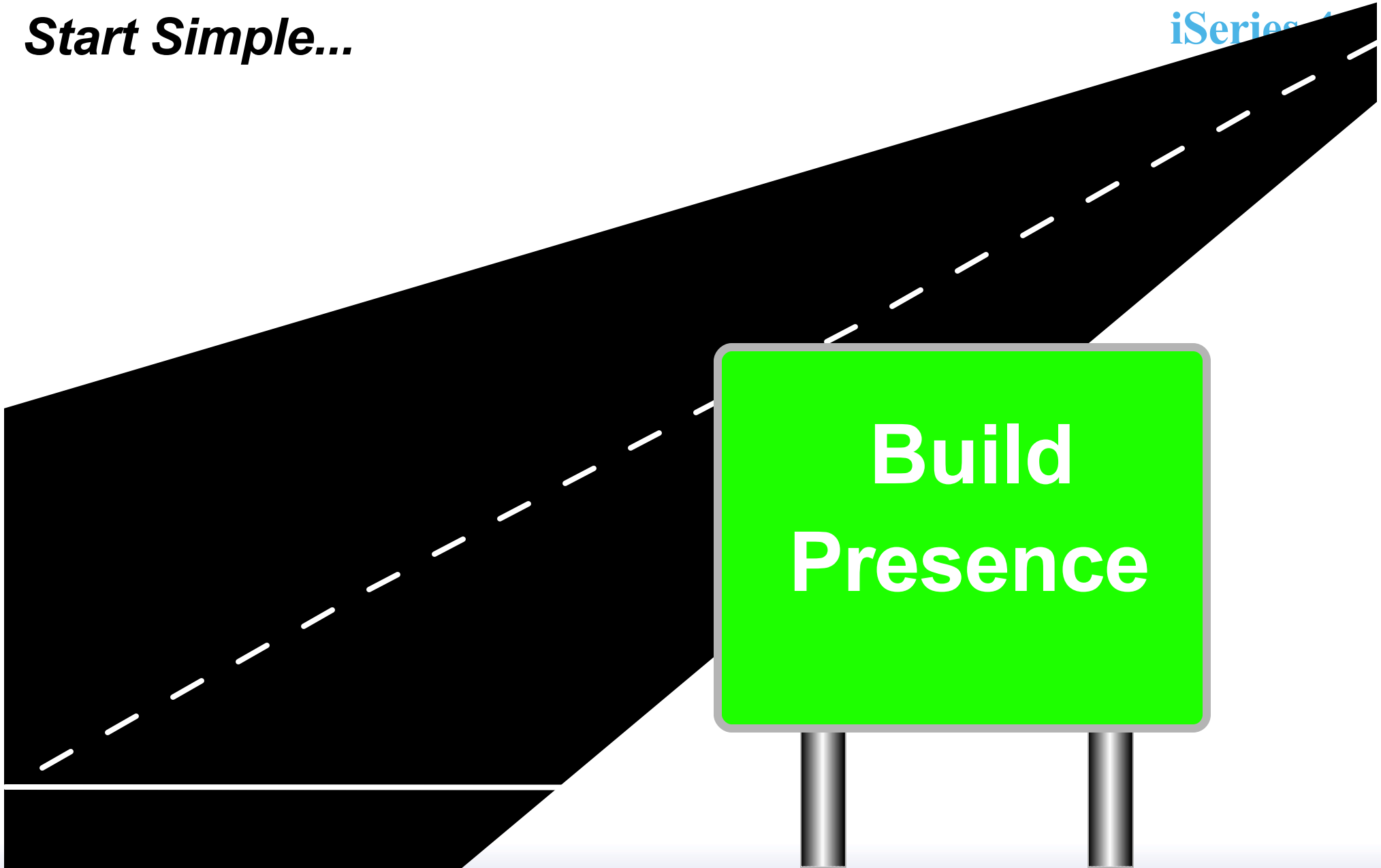Web Application Development

Host Integration

Build Presence

...with WebSphere Products

servers. For the next generation of e-business.

What are the Options?

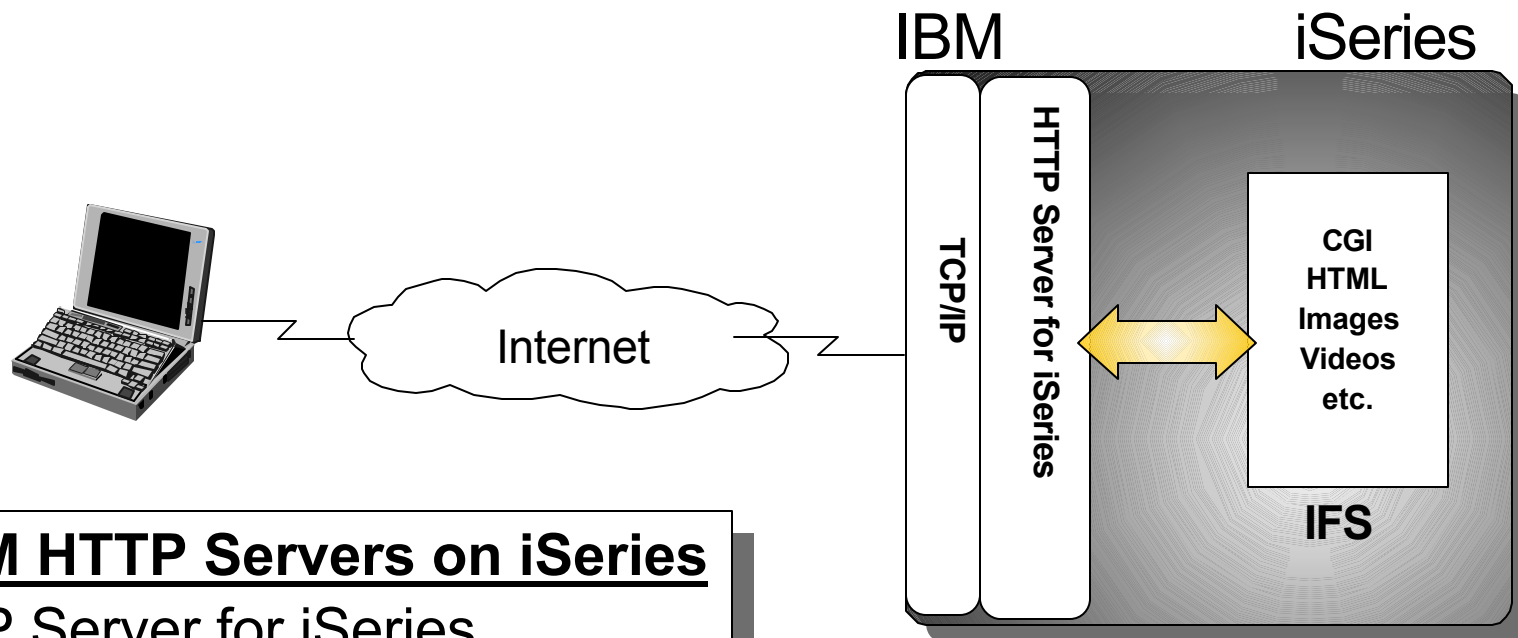*Start Simple...*

iSeries

Build Presence

vers. For the next generation of e-business.

HTTP Server for iSeries - Powered by Apache

iSeries 400

- The Basic "Web" Building Block, everything "WebSphere" needs this
- Powered by Apache... The #1 Web Server in the world (lots of Apache skills available)
- Many Over-the-counter tools work with it.

IBM   iSeries

TCP/IP

HTTP Server for iSeries

Internet

CGI
HTML
Images
Videos
etc.

IFS

Other IBM HTTP Servers on iSeries

IBM HTTP Server for iSeries

Domino HTTP server

IBM *@* servers. For the next generation of e-business.

Web Development Tools

WebSphere Studio

http://www.ibm.com/software/webservers/studio/

Basic web site and Java development Tools (WebSphere Homepage Builder, Hot Media, VA for Java, etc.)
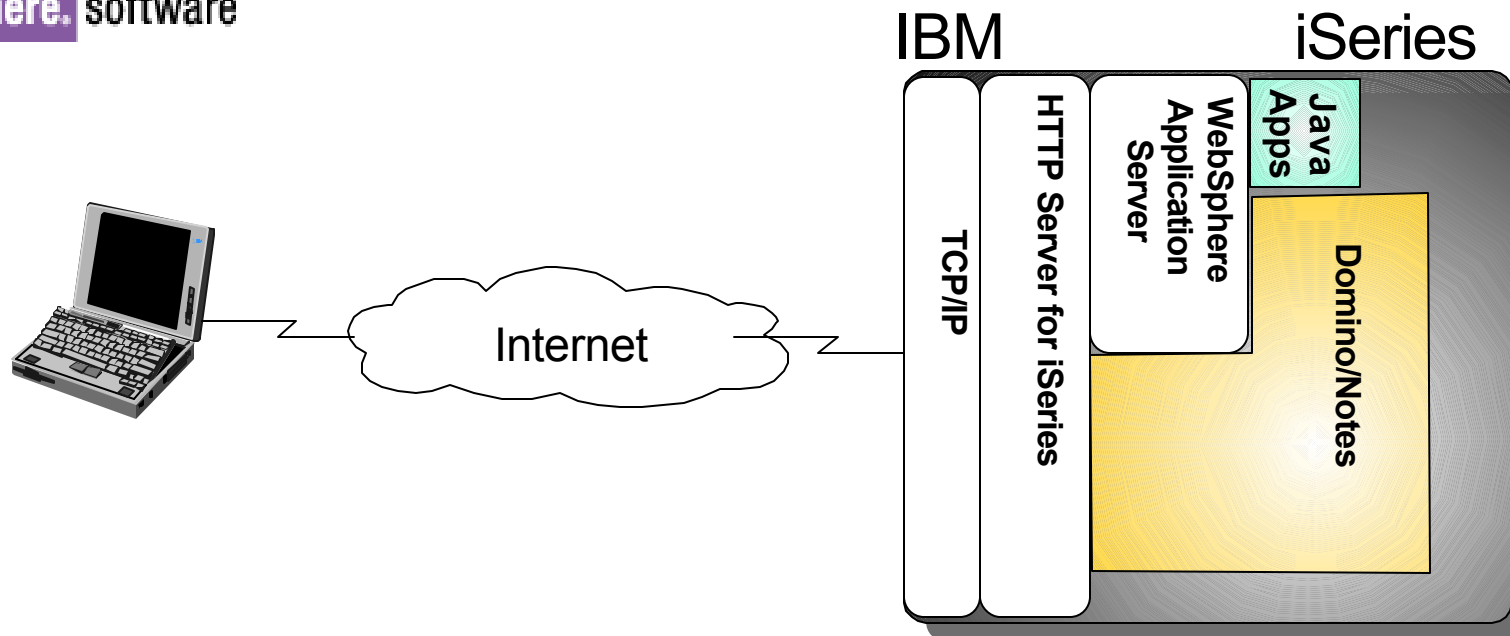
Included with WebSphere Development Studio for iSeries
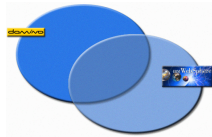
WebSphere. software

Domino Designer

http://www.lotus.com/home.nsf/welcome/dominodesigner

Complete Notes Database and Web Design Tool

Integrated development environment

Lotus software

IBM   iSeries

- TCP/IP
- HTTP Server for iSeries
- WebSphere Application Server
- Java Apps
- Domino/Notes

Internet

Advanced Presence Tools

WebSphere Portal Server

http://ibm.com/software/webservers/portal/

End-User Driven Personalized Web Pages

Can pull syndicated information from over 50,000 databases for news and research and access corporate Applications

iSeries Beta in Progress... Stay Tuned

WebSphere. software

WebSphere Personalization

http://ibm.com/iseries/software/websphere/wspersonal/

New Version 3.5.2.2

Rules Based Engine - Reacts to End Users visit (i.e. Up Sell/ Cross Sell in a Commerce Application)

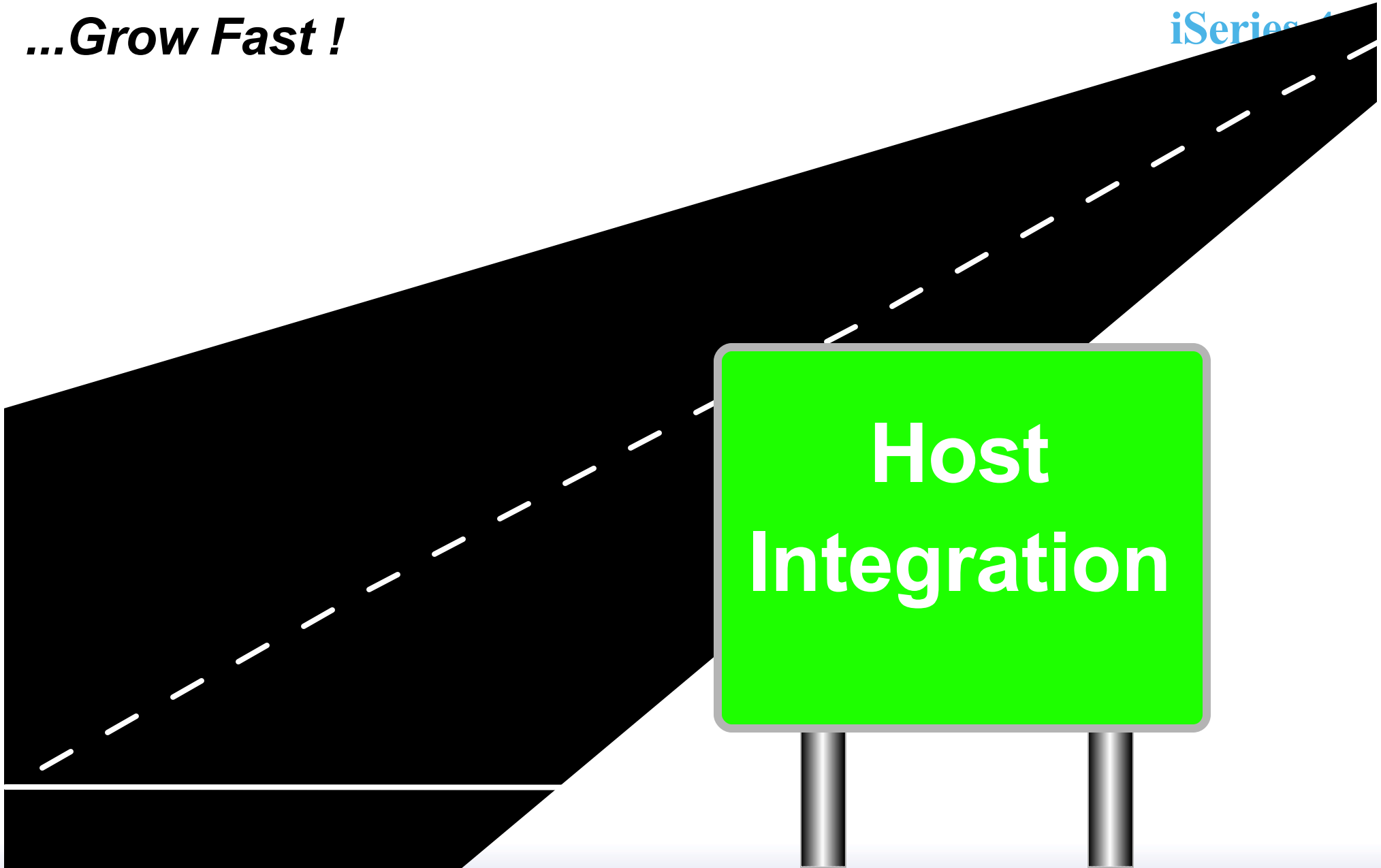Partial function packaged with WebSphere Commerce Suite for iSeries

WebSphere. software

IBM *@* servers. For the next generation of e-business.

What are the Options?
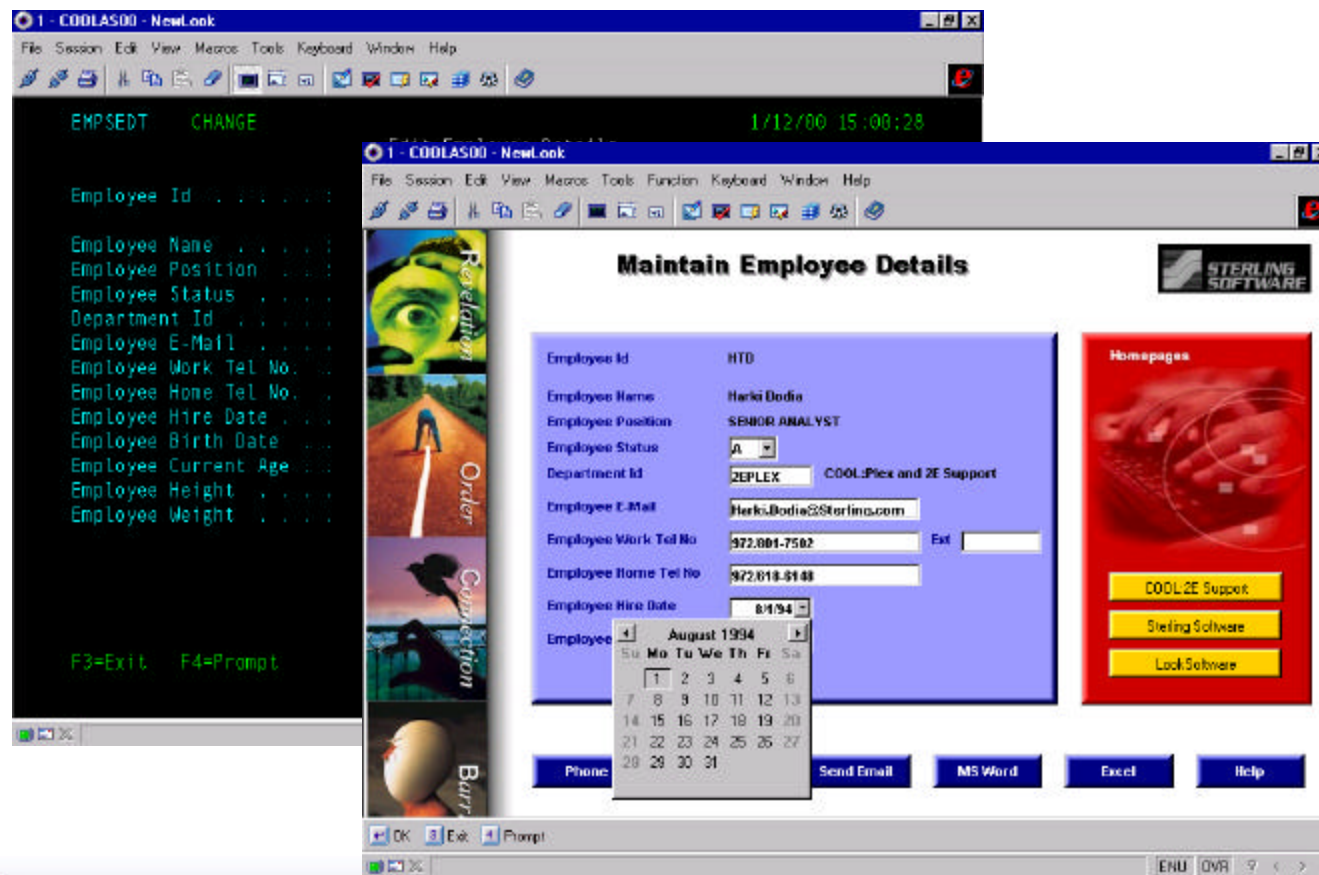
...Grow Fast !

iSeries

Host Integration

...vers. For the next generation of e-business.

Host Integration Tools

Three WebSphere Products Available!

- WebSphere Host On Demand with Screen Customizer
- WebSphere Host Publisher
- WebSphere Development Studio (Web Facing)

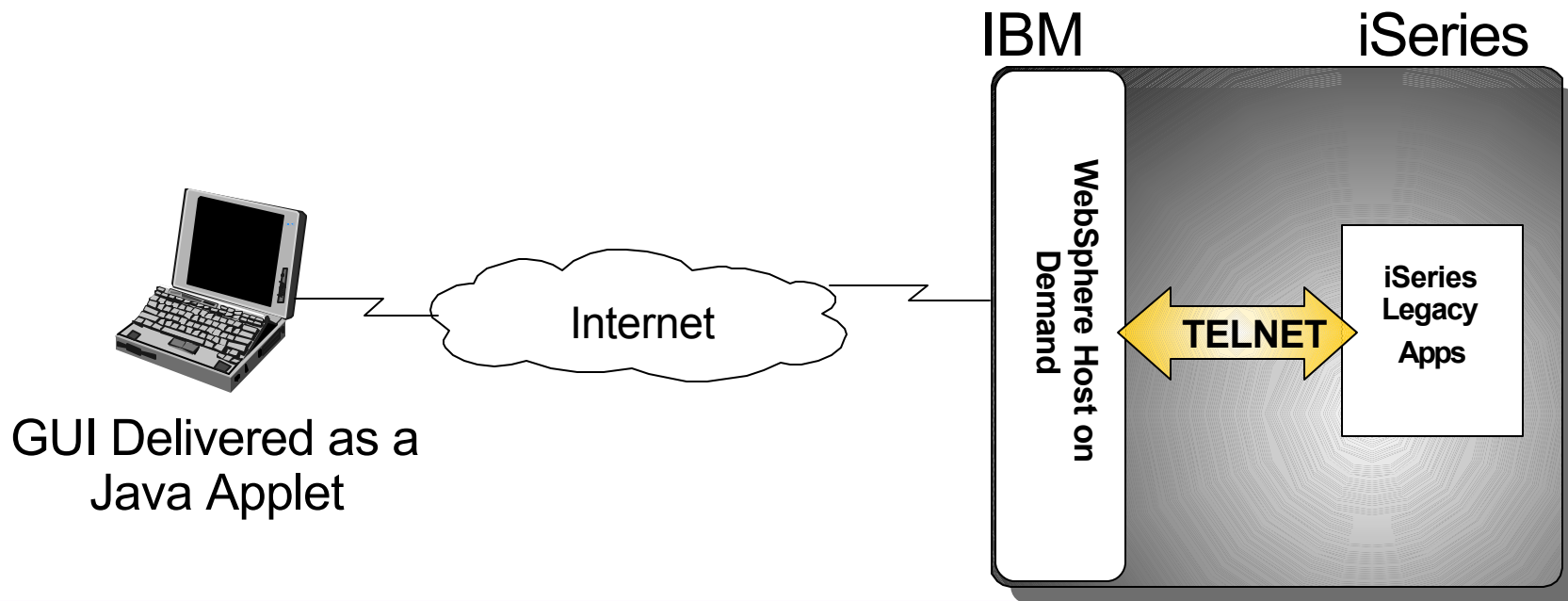# *WebSphere Host on Demand*

http://ibm.com/software/webservers/hostintegration/

- Basic 5250 Emulation
- Make GUI with WebSphere Screen Customizer
- Usually sold with WebSphere Screen Customizer in **IBM Host Access Client Package**
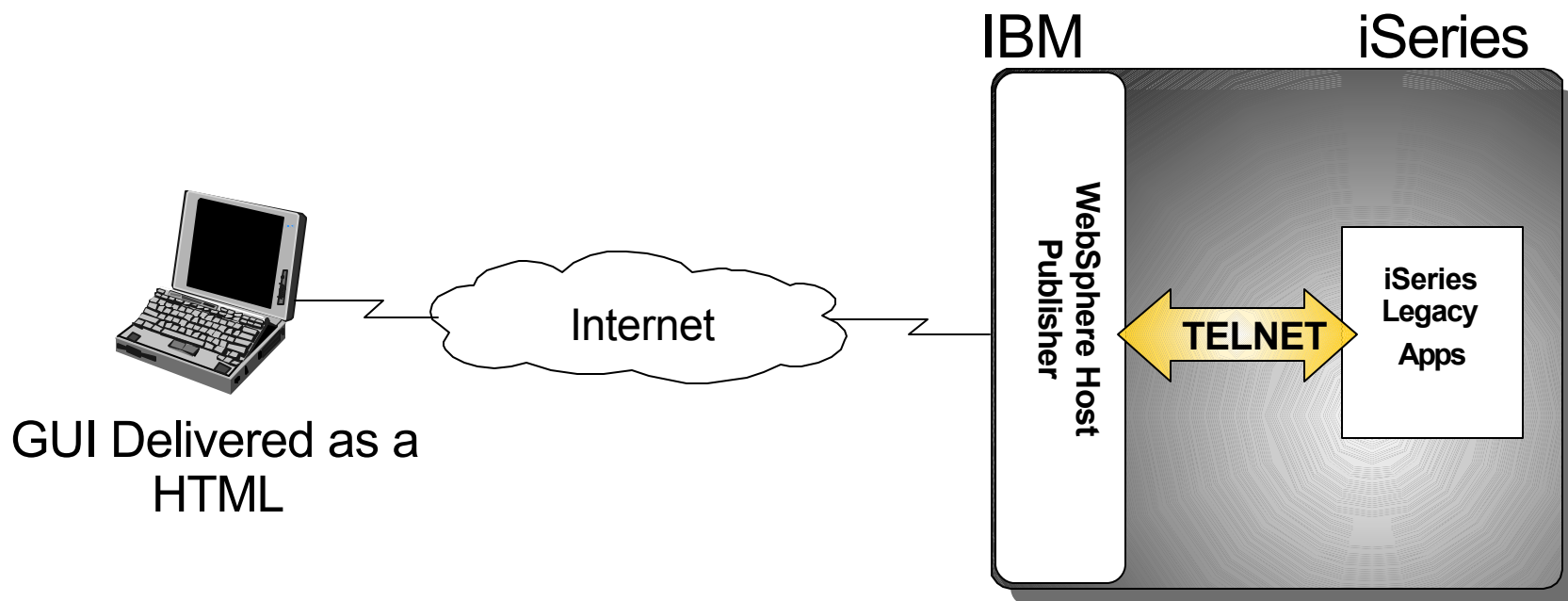- Interactive Job Workload

IBM   iSeries

WebSphere Host on Demand

iSeries Legacy Apps

TELNET

Internet

GUI Delivered as a
Java Applet

WebSphere Host Publisher

http://ibm.com/software/webservers/hostintegration/

- Still Interactive but Connections can be pooled
- Usually sold as part of **WebSphere Host Integration Solution**
- Included with New Client Access iSeries Access for Web (Free Upgrade with Software Subscription)
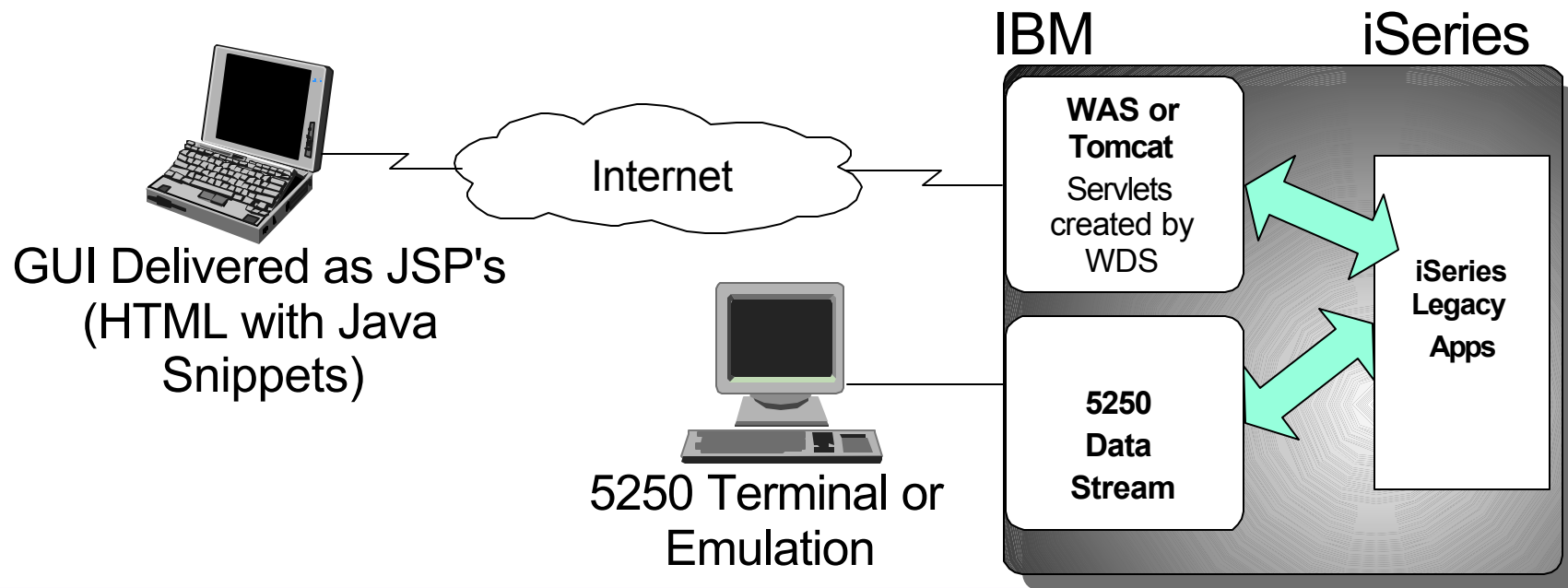
IBM   iSeries

WebSphere Host Publisher

Internet

TELNET

iSeries
Legacy
Apps

GUI Delivered as a
HTML

servers. For the next generation of e-business.

WebSphere Development Studio

iSeries 400

- No Excuses Tool Package: Every Tool you need to Develop Mission Critical Web Applications
- Includes: All Compilers, CODE/400, WebSphere Studio, VisualAge for RPG & Java, and a **New WebFacing Tool**!
- Still Interactive

IBM   **iSeries**

Internet

WAS or Tomcat
Servlets created by WDS

5250 Data Stream

iSeries Legacy Apps

GUI Delivered as JSP's (HTML with Java Snippets)

5250 Terminal or Emulation

@ servers. For the next generation of e-business.
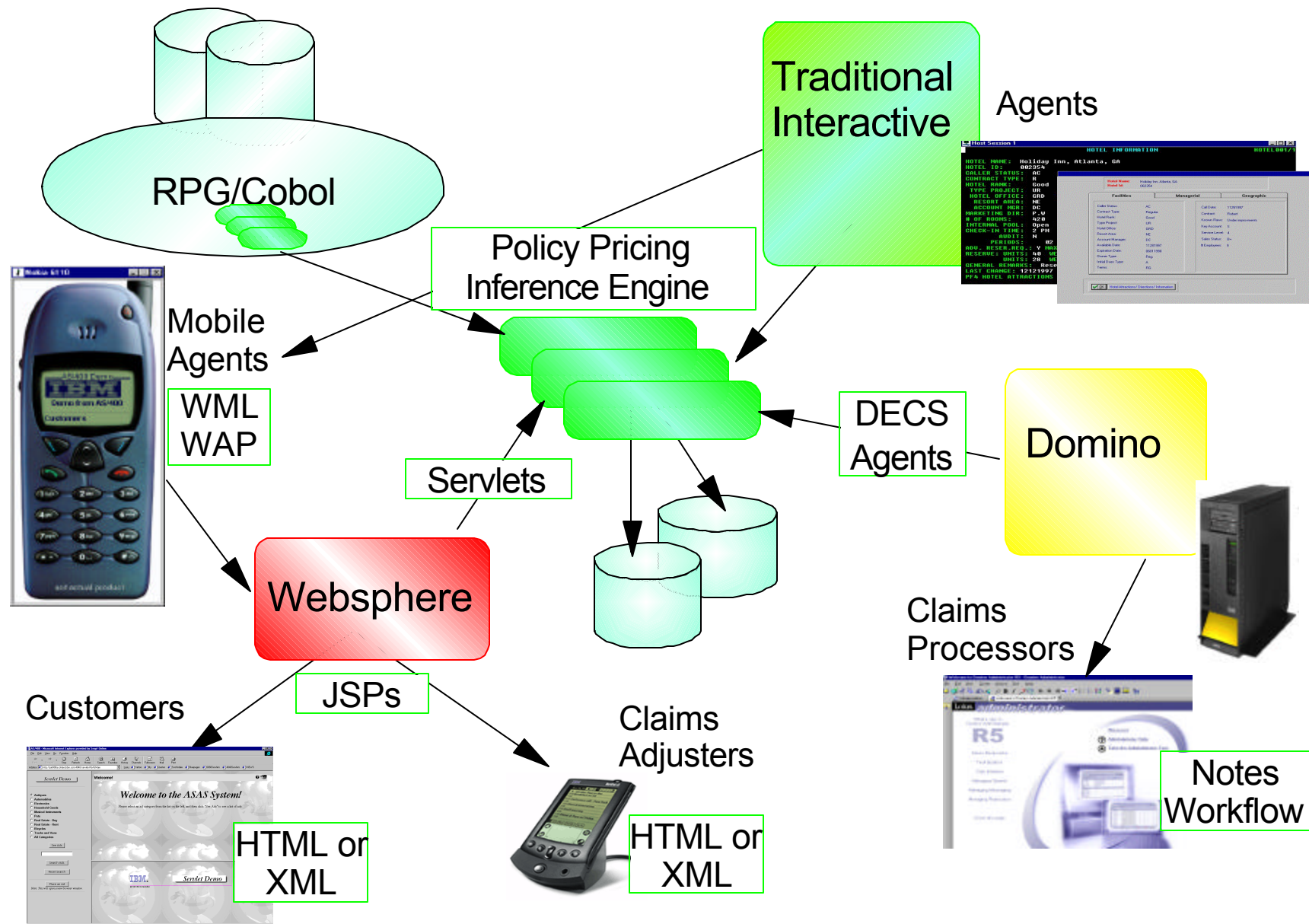
WebSphere Transcoding Publisher

iSeries 400

- Extends existing Web content to new wireless devices without re-authoring
- Streamlines delivery to a variety of users across wireless networks
- Customizes content presentation

generation of e-business.

Insurance Application Transformation

RPG/Cobol

Traditional Interactive

Agents

Policy Pricing Inference Engine

Mobile Agents

WML WAP

DECS Agents

Domino

Servlets

Claims Processors

Websphere

JSPs

Customers

Claims Adjusters

HTML or XML

HTML or XML

Notes Workflow

What are the Options?

...Grow Fast !

iSeries

Web Application Development

For the next generation of e-business.

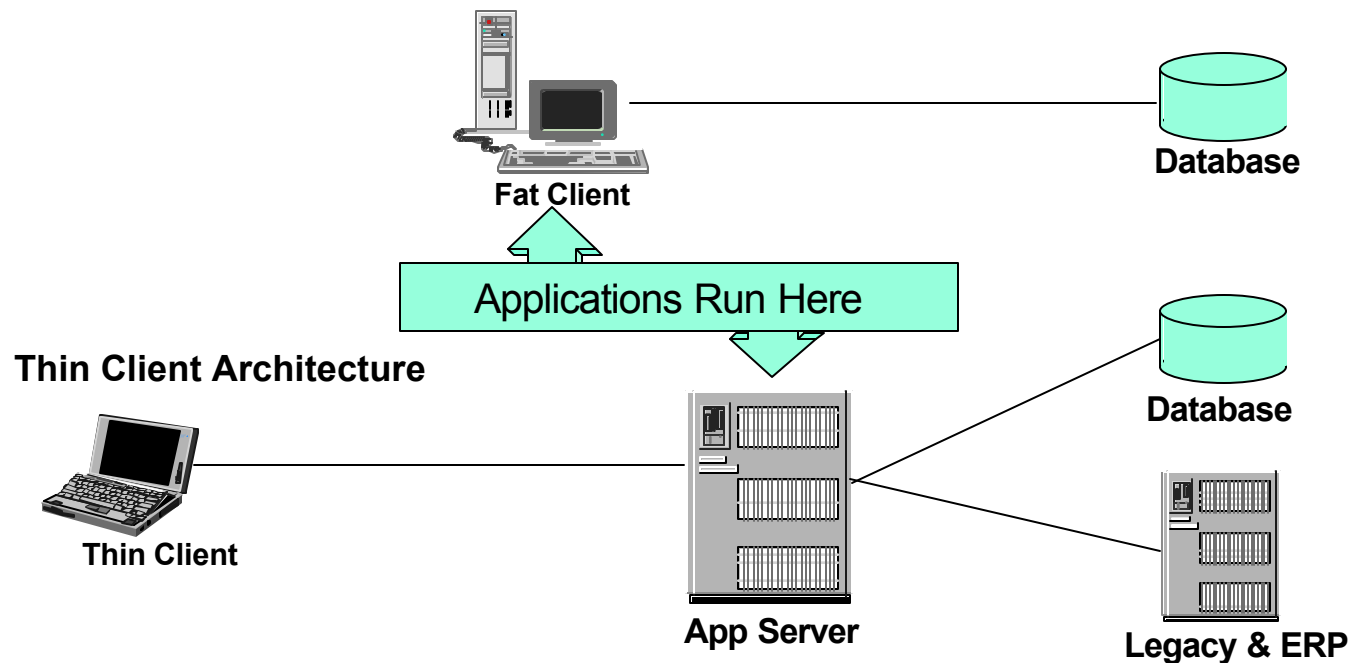# Introduction To Web Application Servers

Web Application Servers

- The way portable applications will be deployed to the web
- Java server components rely on web application servers
- Servlets, Java Server Pages (JSP's) & Enterprise Java Bean (EJB's)
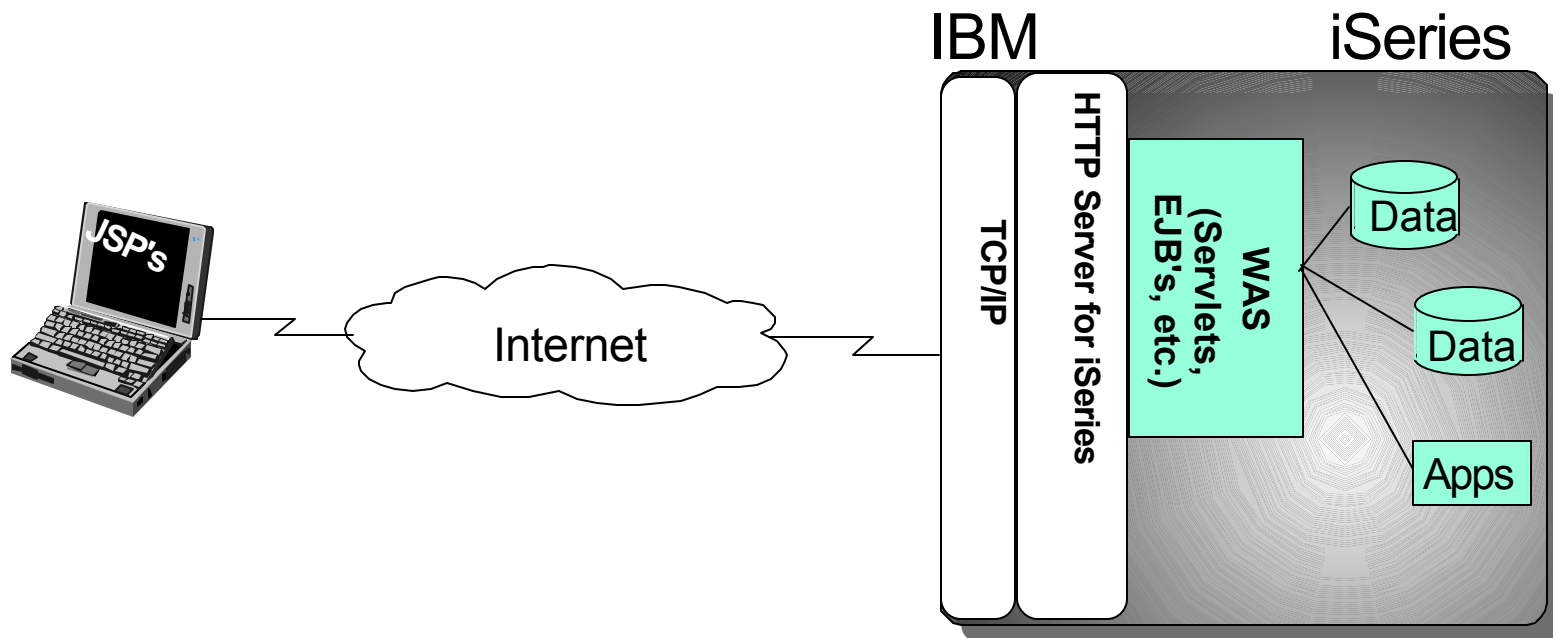
Fat Client Architecture

Database

Fat Client

Applications Run Here

Thin Client Architecture

Database

Thin Client

App Server

Legacy & ERP

WebSphere Application Server

- The Ultimate Java Runtime Environment
- Advanced Technology: J2EE Certified (JDK 1.3), Web Services, (SOAP, UDI, WSDL), New single server configuration option, Improved Manageability, Increased Performance
- Strategic!!!

Web Application Servers on iSeries

Apache Software Foundation's Jakarta Tomcat (included with OS/400)

- A simple web application server available for iSeries supporting Servlets & JSP's

- iSeries customers can use Tomcat to "get started" with Java & web application serving

WebSphere Advanced (Single Server Edition), LPP: 5733-WS4

- For standalone department or small/medium business

- Mission Critical Features: J2EE Certified (JDK 1.3), Web Services, (SOAP, UDI, WSDL), New single server configuration option, Improved Manageability, Increased Performance

WebSphere Advanced, LPP: 5733-WA4

- Supports Single Server Edition functions

- Plus multi-server capabilities such as clustering, enhanced administration, distributed security, workload management, and much more

IBM @servers. For the next generation of e-business.

WAS 4 vs. Apache Software Foundation's Jakarta Tomcat

WebSphere Application Server V4 = IBM's "Strategic Web Application Server"

- J2EE Certified (JDK 1.3), Web Services (SOAP, UDI, WSDL), EJB Support, Improved Manageability, Increased Performance & more
- Consistent support across IBM & non-IBM servers
- Designed for the most robust, reliable, scalable and secure web solutions

Apache Software Foundation's Jakarta Tomcat

- A simple web application server available for iSeries supporting Servlets & JSP's
- iSeries customers can use Tomcat to "get started" with Java & web application serving
- IBM support for Jakarta Tomcat is not consistent across IBM servers

iSeries implementation of Apache Software Foundation's Jakarta Tomcat does NOT support
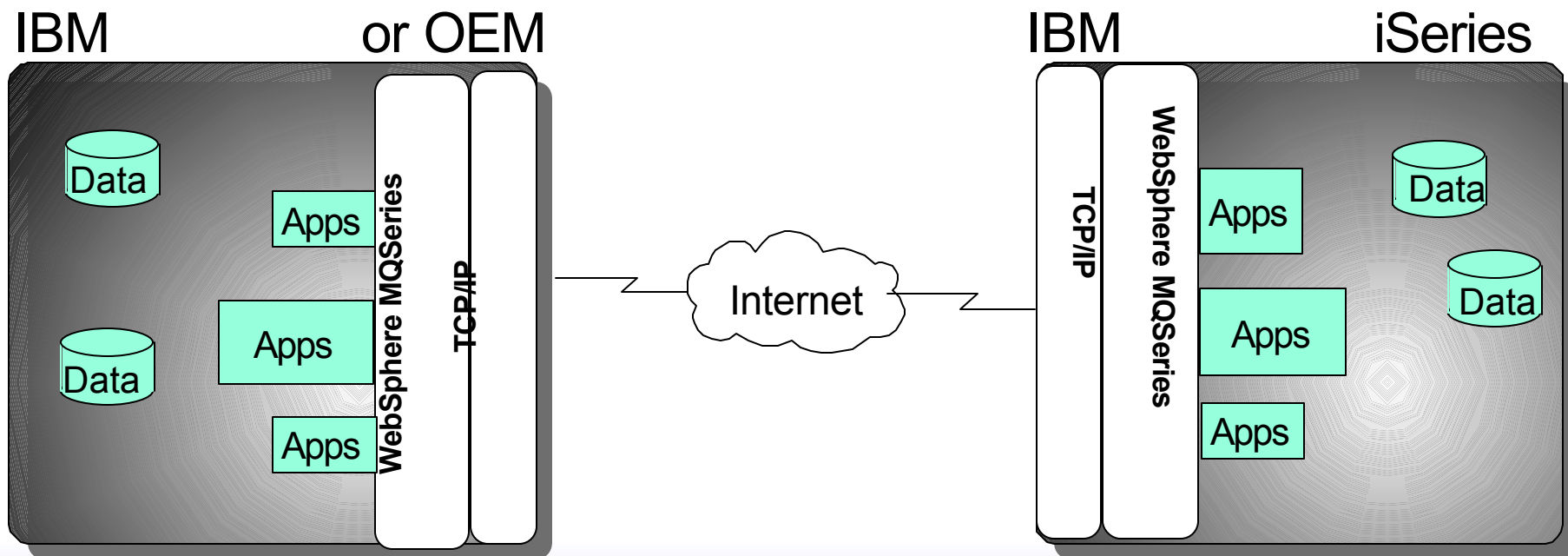
- WebSphere Branded Products
  - WebSphere Commerce Suite, WebSphere Payment Manager, WebSphere Host Publisher, WebSphere Transcoding Publisher, etc.
- J2EE support, EJB's, Connection pooling, Domino integration, Multi-node Administration, Distributed Security, Workload management, Clustering/cloning, Directory Services, J2EE client application support, Javamail, JAF, webservices, programming model extensions, tools, debug features, etc.

WebSphere MQSeries

- Connects to any commercial system in business today (35 different Platforms)
- Ignore network disruptions - important data is always delivered.
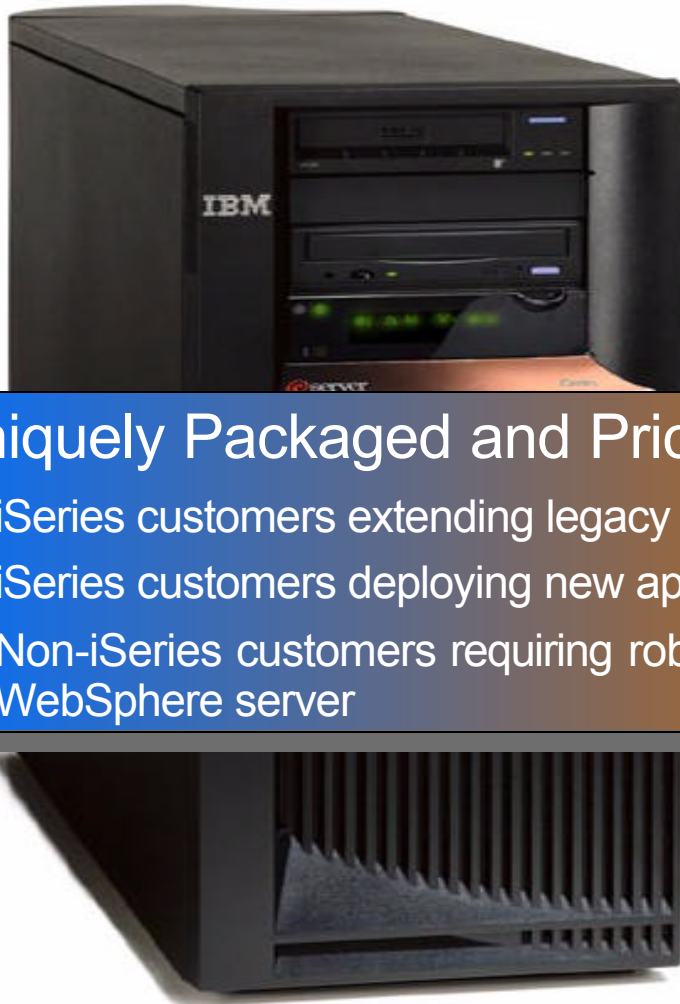- Requires programming skills to leverage the rich set of API's

Announcing IBM eServer iSeries Powered By WebSphere

iSeries 400

iSeries Powered By WebSphere

✔ WebSphere is critical to iSeries e-business
✔ iSeries = Low Total Cost of Ownership

Uniquely Packaged and Priced for:

➤ iSeries customers extending legacy applications

➤ iSeries customers deploying new applications

➤ Non-iSeries customers requiring robust, scalable WebSphere server

GA - Dec 4, 2001
Annc Letter: 501-261

IBM @ **servers.** For the next generation of e-business.

IBM eServer iSeries "Powered By WebSphere"

Target Market

iSeries 400

- **iSeries install base (Greater than 500 employees)**
- **Looking for custom solution vs. prepackaged software**
- **Willing to invest in IBM and/or Business Partner Services**

Customer Value

1. **Easy for customers to get started with WAS**
2. **Extend existing legacy applications to the web**
3. **Build new web-based B2B & B2C applications**
4. **Buy new e-business/e-commerce solutions**

IBM eServer iSeries Powered by WebSphere

Two iSeries Model 270's

- **Entry & Growth Models**

WebSphere Software pre-loaded & configured for iSeries

- **WebSphere Application Server Advanced V4****
- **WebSphere Development Studio for iSeries (IFS)****

Services include

- **Wizard for WAS setup & configuration guide****
- **Web Strategy & Design Workshop** (see Resources)**

** = Unique offering

IBM *@* servers. For the next generation of e-business.

Customers running Java/WebSphere

http://www.iseries.ibm.com/developer/java/solutions/jjem.html

- Bic Graphic Usa
  - http://www.iseries.ibm.com/developer/java/solutions/bic.html
- Famous Footwear
  - http://www.iseries.ibm.com/developer/java/solutions/famous3.html
- Federal Home Loan Bank of Des Moines
  - http://www.iseries.ibm.com/developer/java/solutions/fhlbdm.pdf
- HMV Media Group
  - http://www.iseries.ibm.com/developer/java/downloads/hmv.pdf
- Intermediate GmbH&Co
  - http://www.iseries.ibm.com/developer/java/solutions/interm.html
- JOMAR SOFTCORP INTERNATIONAL
  - http://www.iseries.ibm.com/developer/java/solutions/jomar.html
- Renaissance Cruises
  - http://www.iseries.ibm.com/developer/java/solutions/renc.html
- Welch's Foods, Inc.
  - http://www.iseries.ibm.com/developer/java/solutions/welch.html

IBM @ servers. For the next generation of e-business.
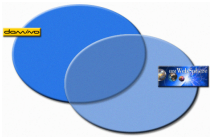
What are the Options?

...Grow Fast !

iSeries

Web Enabled Solutions

...vers. For the next generation of e-business.

Commerce Solutions

WebSphere Commerce Suite Pro v5.1

http://ibm.com/software/websphere/commerce

Commerce Accelerator - Easy Campaign/Site Management

Globalization Features allow one Store to Service the World!

Comes packaged with WebSphere Payment Manager and WebSphere Application Server v3.5 Adv. Edition

Binary Tree ezMerchant

http://www.binarytree.com/ezmerchant

Low Cost Catalog/Shopping Basket

Team Portal Capability

Catalog can port to WebSphere Commerce Suite

Announcing WebSphere Commerce Business Edition!

http://www.ibm.com/software/webservers/commerce/wc_be/

- ## *Widening the e-commerce Gap*
  - *Delivers cost effective solutions to business problems*
  - *Leadership choice for enterprises looking for a long-term business partner*

- ## *Extending our Reach in B2B*
  - *Builds on our world-class e-commerce process expertise*
  - *Optimizes & automates relationships and processes across the value chain*

- ## *Serious commitment to extending the Platform*
  - *Integration with the fastest growing Brand in IBM - WebSphere Family*
  - *Investment of WebSphere Commerce Platform is strategic and high value to our Customers*

- ## *LPA 12/01, GA - 1Q01*

IBM *@* servers. For the next generation of e-business.

Slide 35

Payment Solutions

WebSphere Payment Manager

http://ibm.com/software/websphere/commerce

Standalone English Version: LPP 5733-PY2

Support for SET (Electronic Wallets)

Included with WebSphere Commerce Suite Pro Edition for iSeries v5.1

Support for VisaNet and Cybercash

IT Factory Commerce Accelerator

http://www.itfactory.com

Provides credit card processing or electronic check payment for Domino web sites

Leverages CyberCash's new CashRegister Service

Customers running WebSphere Commerce Suite v5.1

iSeries 400

- AMCOR Sunclipse
    - http://shop.leatherman.com
- Andin Jewelry
    - http://www.jewelry.com
- Birks
    - http://www.birks.com
- InterAmerican Motor Corporation
    - http://webwarehouse.imcparts.com
- More on the way...

IBM *e* servers. For the next generation of e-business.

These three areas tie together the broadest and deepest e-business platform

- **Portal & Personalization**
- **Voice & Translation**
- **Pervasive Devices**
- **Commerce**

- **Business Modeling**
- **Process & B2B Integration**
- **Process Automation**
- **Industry Integration Solutions**
- **Host Integration**

Reach & User Experience

Business Process Mgmt

WebSphere

Foundation and Tools

- **Application Serving**
- **Assured Messaging**

- **Roles-Based Tooling**
- **Application & Data Access**

IBM

@ servers. For the next generation of e-business.

Agenda

What are the iSeries e-business strategies

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Summary

IBM @ servers. For the next generation of e-business.

Why WebSphere on iSeries?

iSeries 400

- **Fast Java Business Benchmark**
  - 132,322 transactions per second, with a .18 second response time.
  - http://www.ideasinternational.com/benchmark/spec/specjbb2000.html

- **High Single Server Availability**
  - 99.98% Available, 1.2hours/100 users unscheduled downtime per year (Source: IDC)

- **Virus Resistant**
  - OS/400 Architecture is resistant to Wintel and UNIX based viruses
  - Source: http://www.securityfocus.com/vdb/stats.html

- **Low Total Cost of Ownership**
  - 5 Year Total Cost of Ownership Study
    - ▶ Small Firms: 91% lower than UNIX, 95% lower than Intel
    - ▶ Large Firms: 58% lower than UNIX, 72% lower than Intel
  - Source: IDC Server Cost of Ownership in ERM Customer Sites (August 2001)

www.ibm.com/eserver/iserie

- **Multiple Workload Support**
  - iSeries can run Native OS/400 Applications, Domino Applications, Java/WebSphere Applications, UNIX, NT/Windows2000 and Linux

    applications on the same server at the same time

IBM *@* servers. For the next generation of e-business.

Resources

iSeries e-business Redbook: SG24-6711

Topics:

- ✔ The how, what, and why of iSeries e-business
- ✔ Building e-business sites: Phased approach
- ✔ e-business-out: Extending core applications to the Web
- ✔ Domino Application Server for AS/400
- ✔ WebSphere Application Server
- ✔ WebSphere Commerce Suite for iSeries V5R1
- ✔ B2B: Transforming business processes for e-business
- ✔ B2B: Connectors, Application solutions and Services

ibm.com/redbooks

iSeries 400

WebSphere software

DB2 Data Management Software

◆ Linux

◆ Server Consolidation

◆ Windows Server Integration

◆ IBM

● **Briefings**

● **e-briefings**

◆ e-business

◆ iSeries Update and Directions

ibm.com/eserver/briefingcenter/rbc/
(507) 286-4910

◆ BI/CRM

Lotus. software

◆ SAN

◆ Domino

◆ Systems Management and High Availability

◆ Application Development

Helping you close iSeries business

IBM @servers. For the next generation of e-business.

iSeries Custom Technology Center

Custom Development Services for iSeries and WebSphere!

iSeries 400

- Native e-business Solutions using WebSphere, Servlets, JSPs, CGIs, HTML
- Modernizing Legacy Applications to Take Advantage of e-business Technologies (B-to-B)
- Native Java Programming
- Native Domino Solutions
- WebSphere Commerce Suite Solutions
- Native MQ Series
- Application Port Assistance
- Client/Server Development including Network Station
- Database Applications
- TCP/IP and Sockets Application Development
- Advanced Technology Implementation
- RPG, COBOL, ILE C Programming

Recipe for Success !

Contact: Mark Even   507-253-1313   even@us.ibm.com
             Pete Cornell 507-253-4955 pcornell@us.ibm.com
             Ray Harney   507-253-0920 harney@us.ibm.com

(EMEA) Eric Aquarrone   CTC_EMEA1@fr.ibm.com

IBM

@servers. For the next generation of e-business.

e-business (Services) Partners focused on WebSphere Brand

To be on this list, the Partner must have:

- Certified in WAS (Std and/or Adv v3.5 or above) or WCS v5.1
- Have an iSeries ebiz/ecom VAE
- Have iSeries references (native)

iSeries 400

Eastern Region

- Application Design Services - www.ads400.com
- Bridan Technologies - www.bridan.com
- CommerceQuest - www.commercequest.com
- DyComp, Inc - www.dycompinc.com
- Sky Solutions, LLC. - www.skysolutions.com
- Softwrite Computer Systems - www.softwrite.com

Western Region

- Chouinard and Myhre, Inc, www.cm-inc.com
- MMI Internetworking -www.mmi-internetworking.com
- Pacific Software Associates, Inc. - www.psateam.com
- RyTE Consulting - www.ryte.com
- Symatrix Technology - www.symatrix.com
- The TAM Group - www.tamgroup.com

Central Region

- Advanced System Designs - www.asd.net
- Andrews Consulting Group - www.andrewsscg.com
- Computech Resources, Inc. - www.compures.com
- DigiTerra - www.digiterra.com
- DPS, Inc - www.dpslink.com
- Foresight Technology Group - www.foretek.com
- Haverstick Consulting - www.haverstickconsulting.com
- The Kalos Group, Inc - www.kalos.com
- Keller Shroeder & Assoc. - www.KSAinc.com
- MSI Systems Integrators - www.msiinet.com
- Precision Systems Concepts - www.psclistens.com

North Region

- Group Present - Present.ca
- SilverBlaze Solutions Inc. - www.silverblaze.com

IBM @servers. For the next generation of e-business.

Web Strategy and Design Workshop

- **Course Code: ITC12**
  - Duration: 4 Days
  - Delivery Method: Classroom (Hands-on Lab)
  - Skill Level: Basic
  - Audience Type: Public/Private
  - Language: English
- **Overview:**
  - This 'hands on' workshop is intended to introduce a set of application development tools to customers that are creating Java-based applications for iSeries.
  - It is designed to assist application development architects or designers understand how to modernize their existing applications through the use of e-business technologies.
  - This workshop provides the perfect opportunity to develop skills and gain experience in using the internet technologies that are revolutionizing business!
- **Topics Include:**
  - Understand the enhancements being delivered in the next version of the WebSphere Application Server
  - Gain an appreciation of what design, implementation and deployment capabilities are available in VA/Java
  - Experience the creation and serving of web pages and CGI BIN program output on the IBM HTTP Server Powered by Apache
  - Use a WebSphere Studio interaction wizard to create a web interface to an existing RPG program
  - Convert an existing 5250 display file to a web interface using the WebSphere WebFacing Tool without altering the underlying application
  - Leverage Host Publisher to provide a web interface to an existing 5250 application
- **Schedules and Enrollment:**
  - Enrollment is by nomination... contact your IBM Representative or IBM Business Partner.

Announcing New Courses for iSeries & WebSphere!!

Course Code	Description	Duration
S6187	VisualAge RPG for iSeries	3 days
S6186	CODE/400 for iSeries - Basic	2 days
S6164	Programming with WebSphere Application Server for iSeries	3 days
S6191	Java Programming with iSeries ToolBox for Java	3 days
S6185	WebSphere Studio for iSeries plus WebFacing Tool	4 days
S6184	Java for RPG Programmers	5 days
S6205	CODE/400 for iSeries - Advanced	1 day
S6201	WebSphere Application Server V3.5 Installation and Configuration for iSeries	3 days
S6183	VisualAge for Java and Enterprise Toolkit/400	4 days
S6174	WebSphere Advanced Edition 3.5 for iSeries Programming Workshop	4 days
S6173	Java for COBOL Programmers	5 days

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WebSphere Commerce Suite for iSeries
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Series HTTP Server
http://www-1.ibm.com/servers/eserver/iseries/software/http/index.html

WebSphere Development Studio for iSeries
http://www-1.ibm.com/servers/eserver/iseries/ebusiness/wsdevtools.htm

Series and WebSphere References
http://www.as400.ibm.com/developer/java/solutions/jjem.html
http://www2.software.ibm.com/casestudies/swcsweb.nsf/platform

Series Solution Finder
http://www.iseries.ibm.com/btobpartner/

iSeries & Domino
http://www-1.ibm.com/servers/eserver/iseries/domino/

Dedicated Server for Domino
http://www-1.ibm.com/servers/eserver/iseries/domino/dsd.htm

Workload Estimator for iSeries, WAS, WCS & Domino, HTTP Server, Java, etc.
http://as400service.ibm.com/estimator/

iSeries Custom Technology Center
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http://www.iseries.ibm.com/developer/websphere/assistance.html

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iSeries & Services Network
http://as400service.ibm.com/supporthome.nsf/document/19251245

iSeries e-business Handbook (SG24-5694-01)
http://www.redbooks.ibm.com/abstracts/sg245694.html

iSeries B2B White Paper from Summit Technologies
http://www-1.ibm.com/servers/eserver/iseries/conslt/iseriestrans.htm

WebSphere Commerce Suite With Back-End Order Mgmt.
http://ibm.com/redbooks

iSeries Technology Center
http://www.iseries.ibm.com/service/itc/ebiz.htm

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http://www-3.ibm.com/services/learning/community/as400/

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WebSphere Application Server Overview
http://www-4.ibm.com/software/webservers/appserv/

WebSphere Double the performance of nearest competitor information (Press Release)
http://www-4.ibm.com/software/webservers/appserv/pr_version4.html

WebSphere Commerce Suite
www-4.ibm.com/software/webservers/commerce/

WebSphere Payment Manager
www-4.ibm.com/software/webservers/paymgr/

MQSeries
www.ibm.com/software/ts/mqseries

iSeries & WebSphere Documentation

Redbooks & Red Pieces	Form Numbers/Web Sites
Building iSeries Applications for WebSphere Advanced Edition	SG24-5691
Building Java Applications for the iSeries with VisualAge for Java	SG24-6245
Integrating WCS with Domino Back-End Applications	

· http://ibm.com/redbooks (search for REDP0141)

Java & WebSphere Performance on iSeries
· http://publib-b.boulder.ibm.com/Redbooks.nsf/RedpieceAbstracts/sg246256.html?Open
   iSeries Application Development Directions white paper is now available
· http://www.iseries.ibm.com/developer/tools/documents/addir/index.html
   Connect for iSeries with WebSphere Commerce Suite Red Paper
· http://www.redbooks.ibm.com/redpapers/pdfs/redp0127.pdf

Tools for Application Reface and Redesign
· http://www.as400.ibm.com/developer/comm/pidtechpapers.html?Tools

Introduction to Enterprise JavaBeans for AS/400	SG24-5192-00
Web enabling AS/400 Applications with WebSphere Studio	SG24-5634-00
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