



IBM eServerJ iSeriesJ

The Business Case for WebSphere & iSeries

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Agenda

Stages of eBusiness adoption

Introducing WAS V5 & WebSphere-Express V5 for iSeries

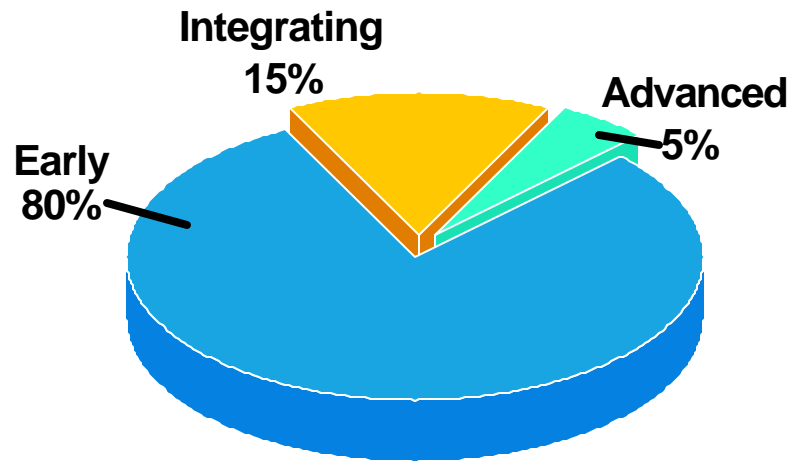
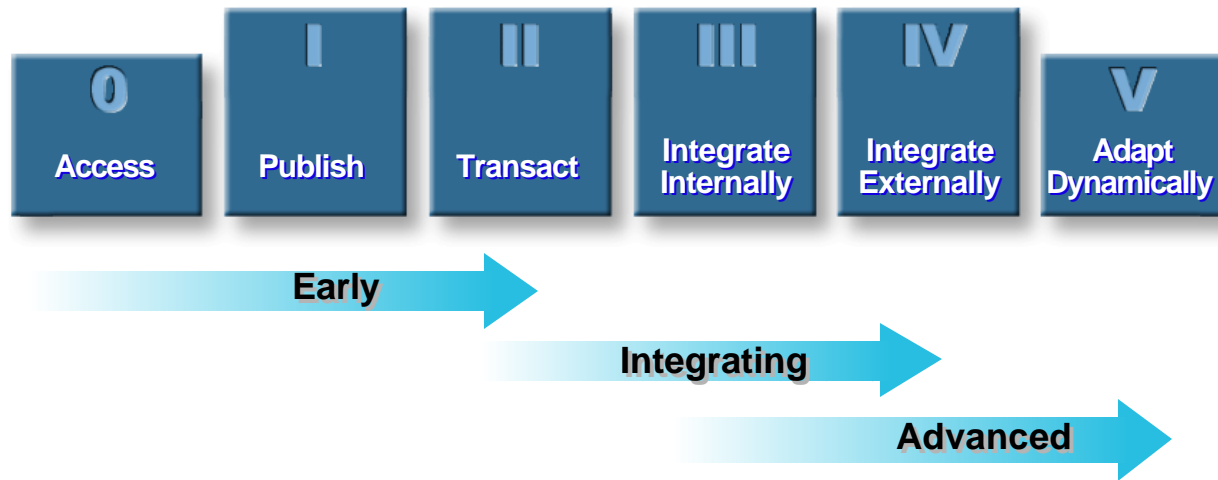
iSeries e-business strategies leveraging WebSphere

- * Build new applications**
- * Extend existing applications to web**
- * Buy e-business applications**
- * Consolidate workloads**

IBM Telephone Directory Overview - Kelly Schmotzer

Summary/Q's & A's

States of eBusiness Adoption

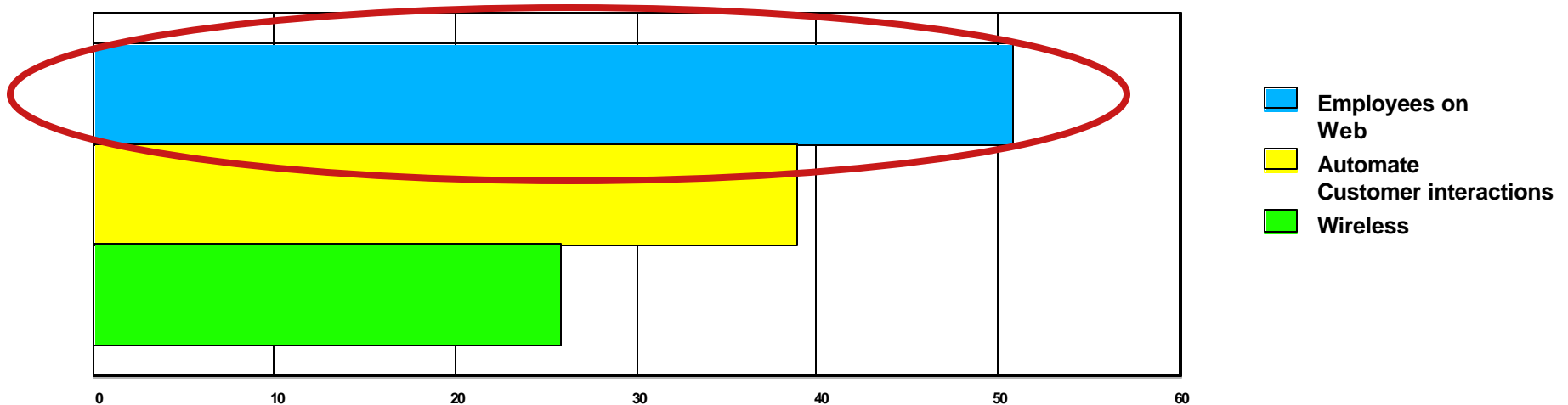


% of Adoption by States

Small & Medium Business & The Web

VARBusiness - Aug. 07, 2002

A majority of Small/Medium businesses (51%) ranked connecting employees to the Web as their top technology priority this year, followed by automating customer interactions (39%) and adopting wireless capabilities (26%).



Top - technology priority = Connect employees to the web!

2002 Market Transforming Momentum

#1

Leading Indicators!

"... Companies Plan to Standardize on WebSphere, 5-to-1 over WebLogic ..."
Salomon Smith Barney, 2001

- Consideration +6
- WebSphere Awareness 58%

#1

Sustained Revenue Growth!

13 Consecutive Quarters of Double-digit WebSphere Revenue Growth

- 3Q 2001 +73% yty
- 4Q 2001 +43% yty
- 1Q 2002 +53% yty
- 2Q 2002 +17% vty

50%
2001 YTY

#1

Market Share Leadership!

Growing Nearly 5X faster than BEA

On Target for Clear-Cut Market Leadership in 2002

34%

Market Leading e-business Platform



WebSphere®

WebSphere: Foundation For e-business

WebSphere Portal Server

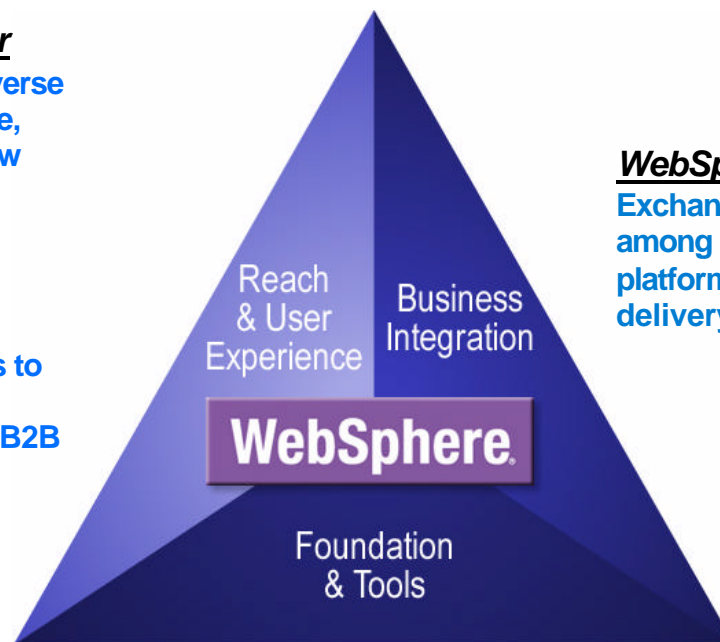
Access widespread and diverse data sources from anywhere, anytime, by anyone you allow

WebSphere Commerce

Powerful sell-side solutions to handle the broad range of challenges encountered in B2B and B2C environments

WebSphere Studio

Professional development tools based on a common workbench technology



WebSphere MQ

Exchange information among more than 35 platforms with assured delivery

WebSphere Application Server

High performance and extremely scalable transaction engine for dynamic e-business applications

Not Categorized as WebSphere

- **IBM WebFacing Tool**
 - Included in WDSi
 - 1 copy in WebSphere-Express
- **iSeries Access for the Web**
 - Part of iSeries Access Family

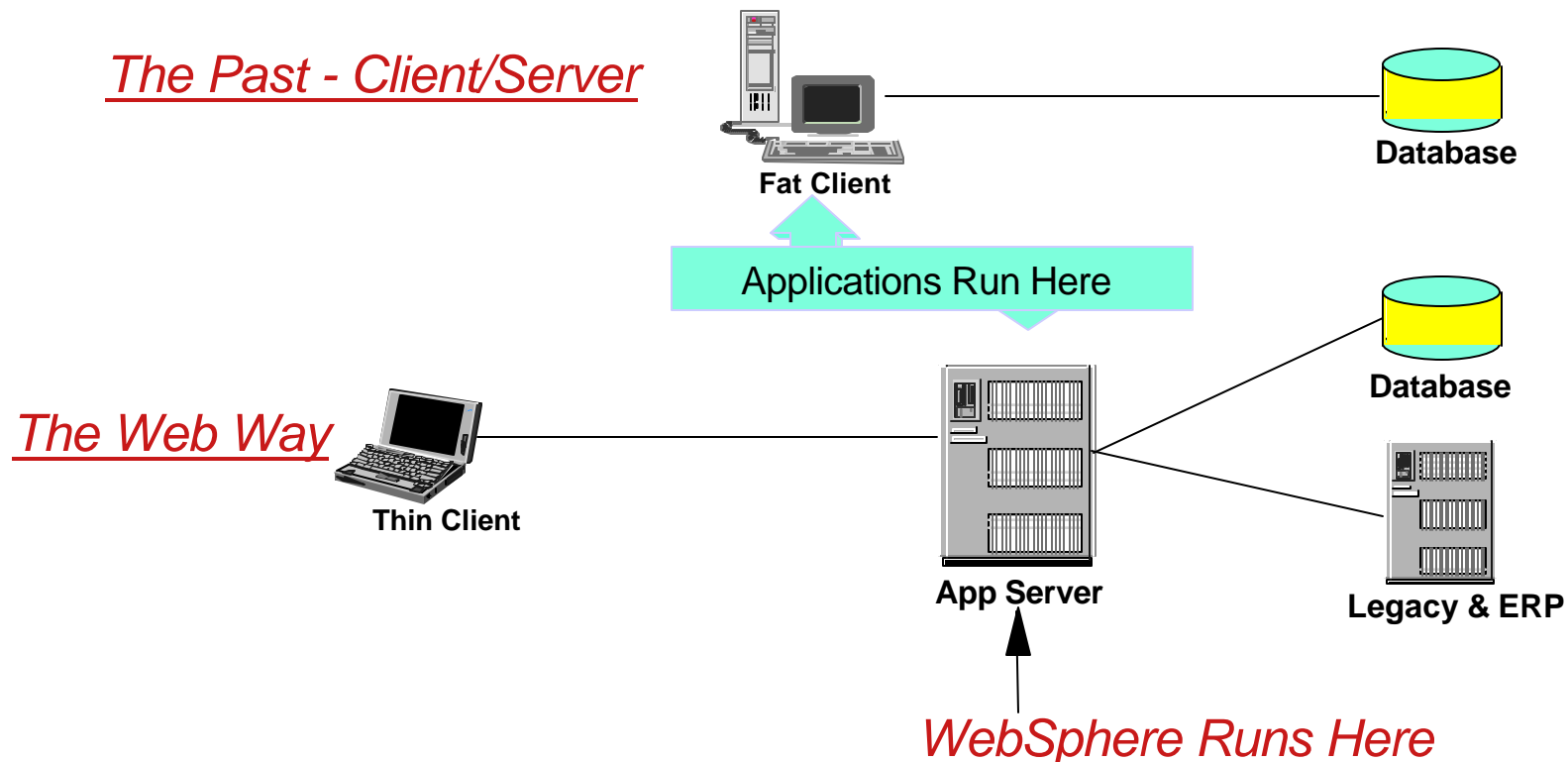
The dynamic e-business infrastructure for IBM, partner and customer solutions

Introduction To Web Application Servers

The way portable applications are deployed to the Web

Java™ server-side components rely on web application servers

- WebSphere-Express V5 - Servlets & Java Server Pages (JSP's)
- WebSphere Application Server V5 - adds Enterprise Java Bean (EJB's)



iSeries, Web Serving & Web Application Serving

iSeries Web Servers

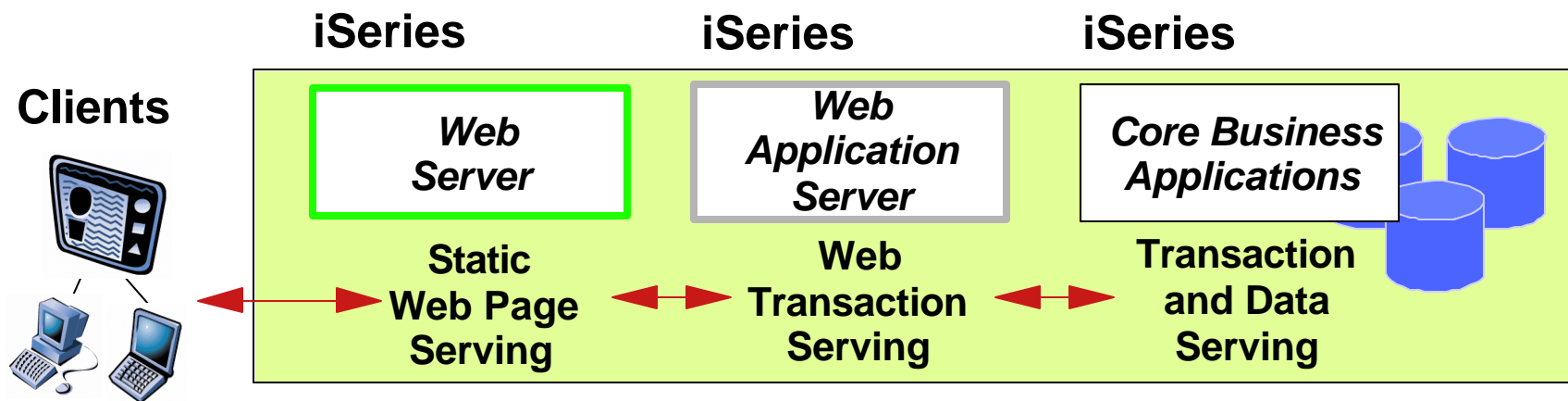
- IBM HTTP Server
-  Apache
- Domino HTTP server
- IBM HTTP Server for iSeries

Use for static web pages

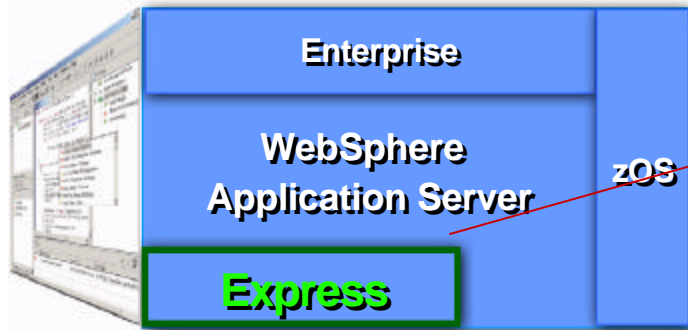
Use for web transactions

Web Application Servers (WAS) for iSeries

1. *IBM WebSphere Application Server V5 (NEW)*
2. IBM WebSphere Application Server V4.0 (WebSphere Advanced - single & multi-server)
3. IBM WebSphere Application Server V3.5 (Older - technical support ending 11/30/2003)
4. Apache Software Foundation's Jakarta Tomcat (Open Source & Not Strategic)



WebSphere Application Server - Express V5



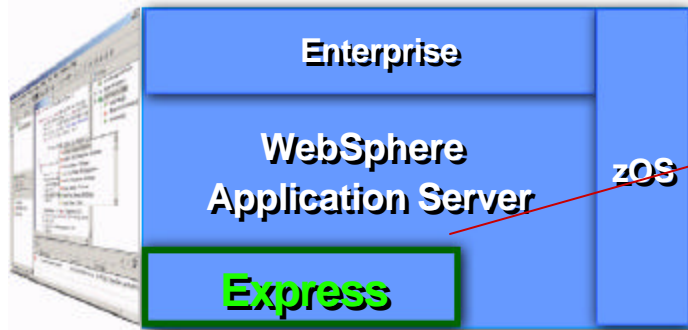
WebSphere Application Server - Express for iSeries

A cost effective, easily approachable "on-ramp" to e-business, providing fast and productive development, deployment & management of dynamic web sites

- **WAS-Express V5 for iSeries includes:**
 - Web application server - WAS-Express V5
 - Application development tool - WebSphere Development Studio Client (WDScl)
 - Includes IBM Telephone Directory
- **WebSphere Application Server - Express V5**
 - OS/400 Support
 - V5R2 (GA - 2/21/2003)
 - V5R1 (GA - 2/21/2003) - Improved from mid March!
 - Intel support
 - Windows 2000 & Linux

Minimum iSeries = 300 cpw & 500 MB memory!

Price - WebSphere Application Server - Express **V5**



WebSphere Application Server - Express for iSeries

A cost effective, easily approachable "on-ramp" to e-business, providing fast and productive development, deployment & management of dynamic web sites

- **WAS-Express V5 is priced right for MidMarket!**
 - \$2,000 per cpu (unlimited number of web users - Intranet/Internet/Extranet) **OR**
 - \$25 per user (Intranet only registered users - buy in increments of 20 users)
 - Price includes 1 year of Software Maintenance
 - Register via Passport Advantage
- **Current customers who have WAS Standard Edition (V3.02 or V3.5) & OS/400 SW subscription**
 - Entitled to 1 copy of WAS-Express for iSeries
 - Must have ordered WAS V3.X by 1/24/2003
 - Software Maintenance must be ordered via Passport Advantage

Customer Quote - WebSphere Express for iSeries

"I just installed WebSphere - Express for iSeries. It was incredibly easy. The install wizard built a WebSphere wizard which came up fully integrated with the Apache - based HTTP server on the first try! This thing is an administrators dream come true. It's ease of use from a systems management and administration standpoint can't be beat."

Bob Cancilla - Republic Indemnity Company of America

IBM Telephone Directory - Details Later.....

The screenshot shows a Microsoft Internet Explorer browser window displaying the IBM Telephone Directory. The address bar shows the URL: `http://aibrahim.endicott.ibm.com/servlet/bluepages?searchcnum=093030897&directory=ALL`. The page title is "IBM Telephone Directory".

The main content area displays the profile for **Kline, A. (Anne)**, an IGS Solution Project Manager. The profile includes a photo of Anne Kline and the following details:

- Employee Type:** Regular
- Is Manager:** N
- Courtesy Title:** Ms.
- Internet Mail:** klinea@us.ibm.com
- Notes Mail:** Anne Kline/Endicott/IBM@IBMUS
- Tie Line:** 852-5691
- Ext. Phone:** 1-607-752-5691
- Fax:** 1-607-755-4772

Below the profile, there are links for "UPDATE RECORD" and "Show Full Record" (Detailed Location, Managing and Personal Information). The last update date is noted as 2002-08-14.

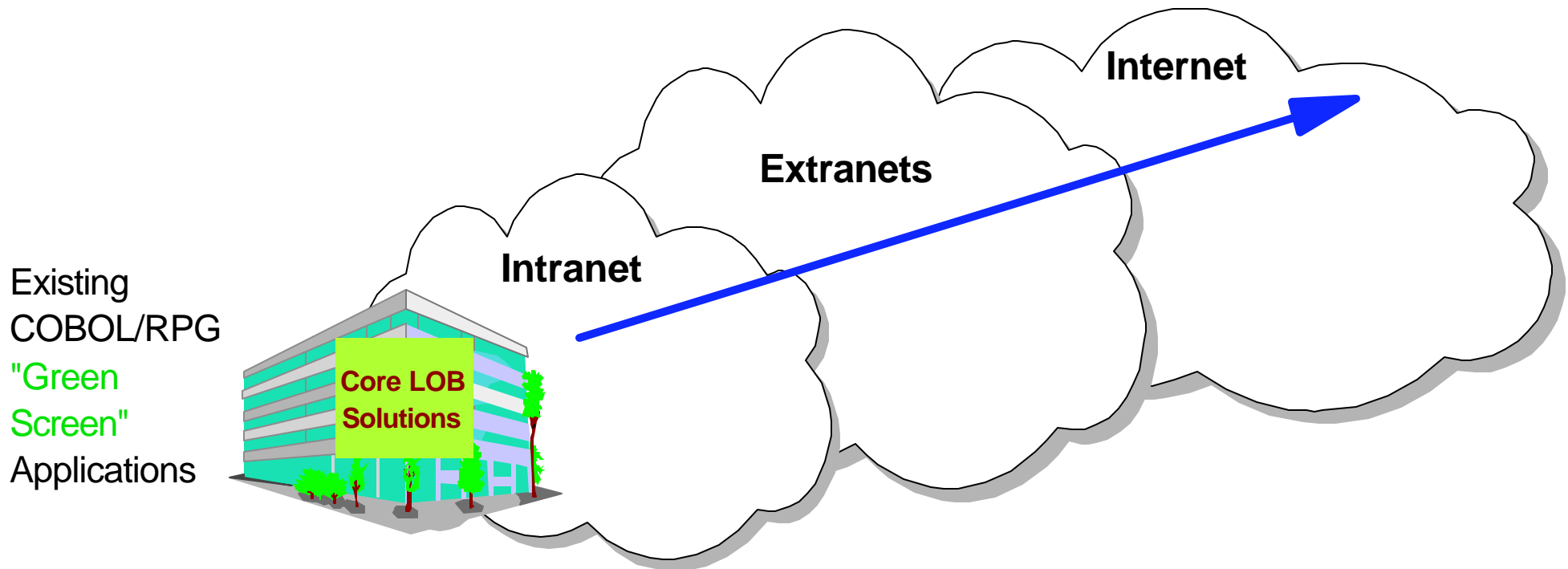
The browser's taskbar at the bottom shows the Start button, several open applications, and the system tray with the time 2:24 PM.

iSeries e-business Strategies

iSeries e-business Strategies

- #1 - Build new e-business applications**
- #2 - Extend existing applications to the Web**
- #3 - Buy new e-business solutions**
- #4 - Consolidate e-business workloads**

"Start Simple"



Build New Applications - WebSphere Development Studio for iSeries

WebSphere Development Studio for iSeries V4**

- Combines Legacy and web development in one offering
 - iSeries host & PC-based client tools
 - Legacy client - CODE/400 & VisualAge RPG
 - Web client - Java, HTML, XML, & Web Services
- WebSphere Development Studio Client (WDSclient) is PC-based client application development tool
 - **1 copy of WDSclient is shipped with WAS-Express for iSeries**



**75,000 copies shipped
since May 23, 2001!**

Customer Benefits

- Support existing application development as well as new web-development
- Integrate the key tools of e-business, Java, and web development
- Ability to "wrapper" RPG applications as web service!
- **IBM WebFacing Tool - Modernize 5250 applications**

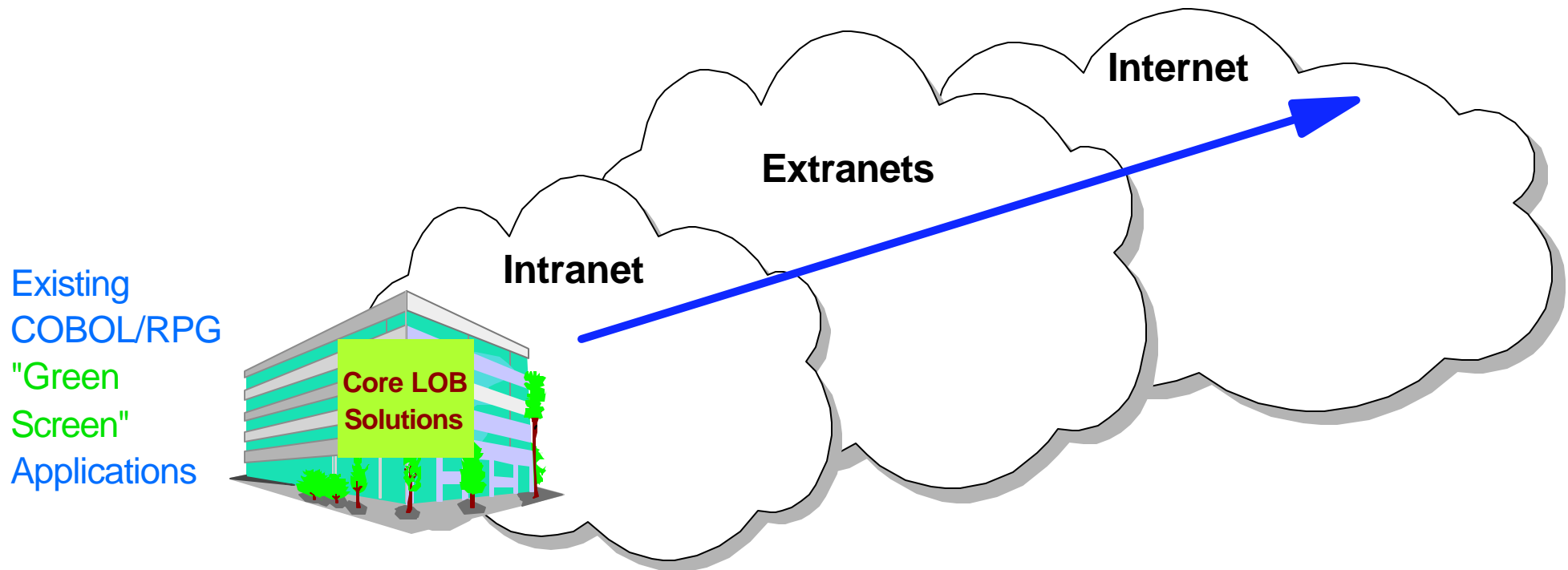


WDSclient & WSAD V5 for iSeries will GA on 4/25/03

iSeries e-business Strategies

iSeries e-business Strategies

- #1 - Build new e-business applications
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Modernize & Extend Existing iSeries Applications

Top executive focus topic: **Get rid of those green screens!**

Many iSeries customers are just **getting started** with e-business

Only need to ask 2 questions to determine if you need WebSphere Application Server

#1 - Do you want your employees to access iSeries via browser?

#2 - Do you want graphical applications?

WebFacing Modernizes iSeries 5250 Applications

IBM WebFacing Tool

- Part of WebSphere Development Studio for iSeries (shipped with WDS*c*)
- Supports 5250 and web interfaces
- Quickly convert RPG/5250 applications to Graphical User Interface (GUI)
- End-users access applications via browser
- **New 2003 iSeries models (only) do NOT require 5250 CPW workload!**

The image shows two side-by-side screenshots comparing a traditional 5250 terminal interface (left) with its web-facing version (right).

Left: 5250 Terminal Interface

Session A - [24 x 80]
 A006SFC2 Products Matching Search Criteria

Co	Div	Cat	Style	Width	Wh	Q	Po#	Size
01	01	M1	F S03 PROD1				1	
			S03					

Type options. Then press Enter. MORE: +
 1=Select 5=Availability 7=Orders

S	Style	Width	Price	Avl Shp Each	O	W	S
█	S03 PROD1	BLK	2.75		Y	Y	
	BLACK POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	BLU	2.75	65	Y	Y	
	BLUE POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	CREM	2.75	200	Y	Y	
	CREAM POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	EMR	2.75	120	Y	Y	
	EMERALD POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	KHA	2.75	156	Y	Y	
	KHAKI POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	NAVY	2.75	250	Y	Y	
	NAVY POLO.JPG			Men's Cotton TShirt			

F1=Help F2=Field help F3=Exit F7=Page Bkwd F8=Page Fwd F12=Cancel
 11/002

Connected to remote server (host: appcon using port 23)

Right: WebFacing Interface

AppSphere - Microsoft Internet Explorer
 Address: http://appcon:6600/appsphere/servelet/com.ibm.as400ad.webfacing.runtime.htpcontroller.ControllerServlet?inv=c811031

AppSphere
 A006SFC2 Products Matching Search Criteria

Enter: [Panel help] [Field help] [Exit]

Type options. Then press Enter. MORE: +
 1=Select 5=Availability 7=Orders

S	Style	Width	Price	Avl Shp Each	O	W	S
█	S03 PROD1	BLK	2.75		Y	Y	
	BLACK POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	BLU	2.75	65	Y	Y	
	BLUE POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	CREM	2.75	200	Y	Y	
	CREAM POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	EMR	2.75	120	Y	Y	
	EMERALD POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	KHA	2.75	156	Y	Y	
	KHAKI POLO.JPG			Men's Cotton TShirt			
-	S03 PROD1	NAVY	2.75	250	Y	Y	
	NAVY POLO.JPG			Men's Cotton TShirt			

Mid Blue

Done Local intranet

Customer Quote - WebFacing

"We knew the value proposition of WebFacing was extremely attractive, but we were absolutely blown away by how easy and quick it was to create web interfaces for our 5250 applications. IBM has a winner!"

Dave Bauer - Architect, Xperia Solutions

iSeries Access Family (fee-based) Includes WebSphere-based Products



iSeries Access for the Web

- Administrator & end-user tool
- Access iSeries resources via browser
- Use iSeries Access for the Web with WebFacing to modernize system screens
- Administrator can customize/limit access to resources

The browser-based alternative...

WebSphere Host Publisher

- Programmer tool
- Modernize existing 5250 applications
- Combine multiple back-end applications
 - iSeries, zSeries, VAX, etc
- Customize applications
 - Take 1,000 screens down to 200
- Supports WAS V3.5 & V4
 - Not WAS V5 or WAS - Express yet

Modernize green screen applications...



What is HATS?

• Host Access Transformation Server

- A host-to-web HTML emulator...
- Includes a rules-based transformation engine...
- Converts green screens to graphical user interfaces (GUIs)...
- Works with iSeries system screens too (WebFacing does NOT)

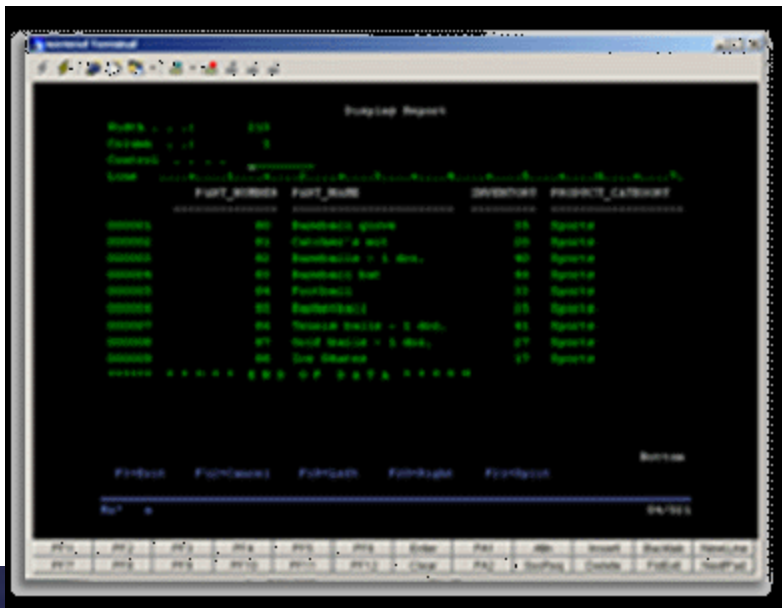
• HATS Limited Edition (Should GA in mid-2003)

- Positioned as easier to use vs. WebSphere Host Publisher
- Buy full HATS server if you need advanced function

**Dynamic Rules
Based
Transformation**

**Easier to Use vs.
WebFacing**

**HATS Limited
Edition Only
Provides 5250 to
HTML
Transformation**



IBM Product Function Comparison

Administrator product for working with host/server resources

- iSeries Access for Web
 - Only product that formally supports ASF Tomcat

Programmer product to modernize host applications

- IBM WebFacing Tool
- WebSphere Host Publisher
- HATS Limited Edition

End-users benefit from all products

* *GUI*

* *Browser-based*

All 4 products require a web application server

Packaging

- iSeries Access Family
 - iSeries Access for Web
 - WebSphere Host Publisher
 - HATS Limited Edition
- WebSphere Development Studio for iSeries
 - WebFacing

Demo iSeries Access for Web and WebSphere Host Publisher:

<http://iseriesd.dfw.ibm.com/webaccess/iWAHome> (case sensitive)

Use the following User ID and password to sign in:

User ID of **WUSER**

Password of **GUEST1**

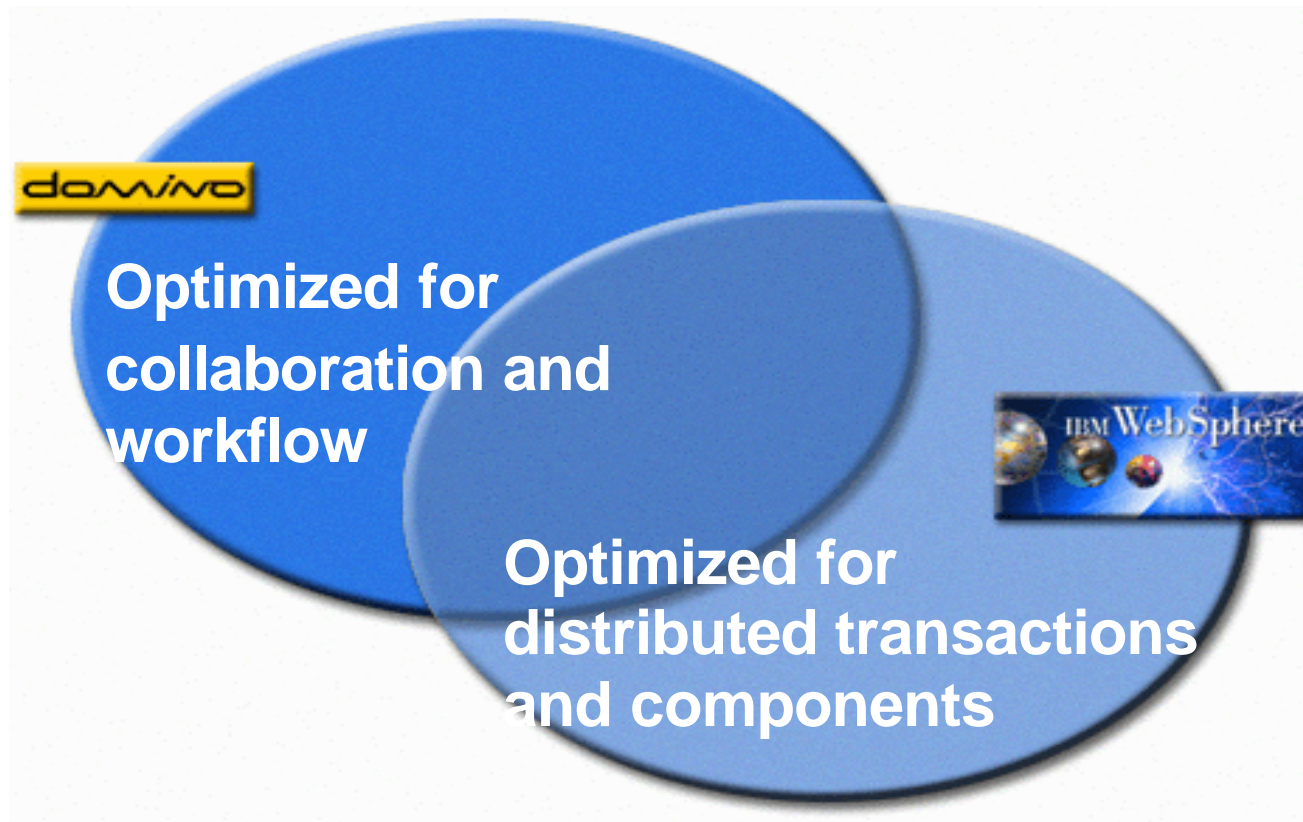
Beaver Creek Web Solutions Demo site...

<http://www.piner.com/>

Domino & WebSphere

iSeries = Recognized as a leading enterprise Domino server

- "Out of box" functionality (mail, calendar & collaborative solutions)
- Ideal for companies with low/medium e-biz skills/resources
- Excellent ISV applications available today
- Domino 6 now includes "limited use" WAS Advanced V4 (single server) license



Sub-Capacity Pricing For iSeries & WebSphere

Only pay for the amount of WebSphere that you use!

- Competitive advantage vs. Unix & Intel solutions
- Helps customers to consolidate servers without excess expense
- Applies to WAS V3.5, WAS V4, WAS V5 & WebSphere Commerce V5.4



2-Way iSeries

Partition #1	Partition #2
WAS 0.5 cpu	Other Workload 1.5 cpu's

2-Way iSeries

- WAS processor units = 0.5
- WAS licenses required = 1

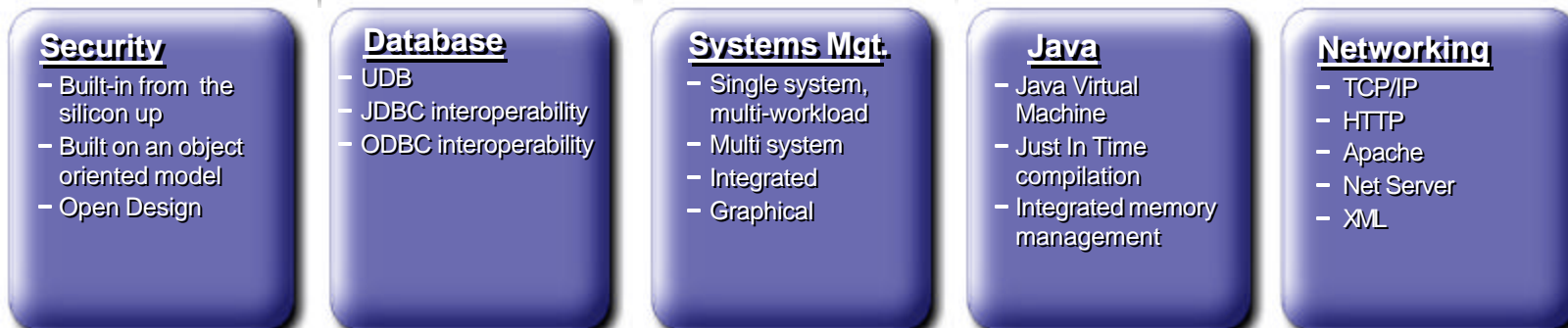
Customer requirements to qualify for sub-capacity pricing

- LPAR must be implemented
- Must send logs to IBM on monthly basis via service agent

iSeries Success = Multiple Applications & Environments



Interconnected for application integration



Across a scalable, secure, reliable platform



iSeries Value Proposition

**Power to drive new,
industry standard
capabilities**

**WebFacing
WebSphere
Java & XML
Web Services
Domino
Windows NT
ERP/SCM/CRM**



**Deliver value
customers expect**

**Ease of Use
Integration
Reliability
Security
Scalability
Service &
Support**

New Solutions Are Complimentary With Existing Applications

Solution Identifier - Look For These Characteristics

- **Customers who want low cost application server supporting Servlets & JSP's**
 - **WAS - Express V5 for iSeries (includes IBM Telephone Directory)**
- **Customers who want robust, scalable application server supporting J2EE**
 - **WebSphere Application Server V5 & WAS V5 Network Deployment**
- **Customers who want their employees to access iSeries resources with a browser**
 - **iSeries Access for the Web**
- **Customers/ISV's who want to modernize 5250 applications by converting DDS**
 - **IBM WebFacing Tool**
- **Customers who want to modernize 5250 applications dynamically via data streams**
 - **WebSphere Host Publisher or HATS**



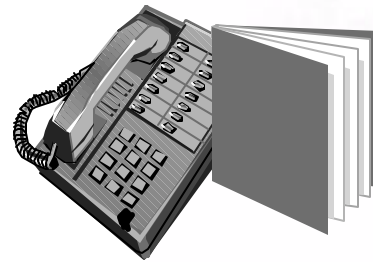
IBM eServerJ iSeriesJ

IBM Telephone Directory Application for iSeries

powered by Websphere V5

Guide to understanding
(RFA 37840)

Available NOW!



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A little History

- Websphere original design - built for larger Enterprises
 - Hearty, robust, complete, global reach, solid base, rich, reliable, large, "ready for anything a *large* company needs"...
- COMMON Nashville - 2002 iSeries Customers/Partners evaluated Websphere 3.5 SE via interview
 - ▶ Learned SMB had different needs
 - ▶ Even though 3.5 SE was no-charge on iSeries
 - Needed larger iSeries system to run (>500 cpw)
 - *Too* hearty, robust, complete, global, etc for smaller business
 - Too costly to upgrade to required system
 - Not simple to install and implement for SMB
 - No applications included, needed Java talent
 - ◆ Hard for SMB to evaluate
 - ◆ Asked for simple/test/sample *application*

IBM "Bluepages" Directory

Internal IBM Application - Evaluation

- Built in Java
- Developed and owned by IBM Global Services
- Increases IBM productivity daily
- Is used as a people-locator on many levels
- Usable application for all industries
- IBM depends on it
- Might just be RIGHT for a simple, sample, production application
- IGS, ESG (iSeries), SWG (Websphere) collaborated on terms and conditions, port, development teams, timeframe,
- Delivered IBM Telephone Directory for iSeries powered by Websphere V5 on 2-20-03
- Bonus: Can be used in production

What is the IBM Telephone Directory Application?

IBM Telephone Directory V 5.1 for iSeries

No additional charge, business application for storing and retrieving directory entries
iSeries Exclusive, included on a CD with WebSphere Application Server - Express for
iSeries

Entitlement with WAS 5 and Network Deployment through Passport Advantage

Simple GUI for easy deployment and administration.

Personnel information is managed securely by the OS/400's Lightweight Directory
Access Protocol (LDAP) server integrated into OS/400.

Browser-based, Powered by Java Server Pages (JSPs) and servlets running in the
application server.

Used as an HTTP server or application server security repository for Web user
authentication. Functions include:

- Ability to search by name, department, job description, organizational structure
(report-to chart), store personalized information (picture),

Support included with Websphere support; Supports up to 1000 entries at no charge .

Code will direct you to contact IBM Global Services to purchase additional entries or
customize the application for your needs.

Only V5R2 OS/400 supports more than 1000 entries on same system hosting LDAP.

Easier electronic method of purchasing more entries in-plan

Why a Telephone Directory for iSeries?

- Many Small and Medium Business customers have the need for a Java-based Application
 - ▶ To **test** Websphere Application Server on iSeries
 - ▶ To **demonstrate/appreciate** a browser-based application on iSeries
 - ▶ To **receive** an application **with** an application server (WAS)
 - ▶ To **better understand** the value of eApplications on iSeries
 - ▶ To make it easier to **justify** eEvolution of their own business
 - ▶ Because IBM uses this application every day and knows iSeries customers will **appreciate** what it can do for them
 - ▶ Because IBM Reps know this application very well and can easily articulate the **benefits** they derive
 - ▶ Because any customer or partner who has ever called 1-800-IBM4YOU (or any IBM general number) to locate a person, a department, a manager, an address has appreciated the benefits of a **fast people-finder**.
 - ▶ Because unlike other eServers, iSeries has an integrated LDAP server and integrated DB2-UDB which the Telephone Directory takes advantage of.

What is needed for IBM Telephone Directory (ITD) on iSeries

- Recommended minimum 300cpw iSeries with OS/400 V5.2 (V5R1 in March 03)
- Websphere Application server V5, Network Deployment OR WAS- Express installed
- LDAP loaded/running (no extra charge on iSeries)
- DB2/UDB running (no extra charge only on iSeries)
- Up to 1000 Employees to complete their registration profiles to proliferate the data about themselves to the directory (or Administrator to pull data from existing tables)
 - ITD Counts Registered Users
 - Message to 1001 user and Administrator to purchase more entries
- iSeries Administrator to install, set up and start application, communicate with users
- Company Employees... who wish to:
 - ▶ Obtain phone numbers, addresses, departments, managers, roles of other employees
 - ▶ See the face of the people we are talking to on the phone or member of our remote team we have never met... ITD allows for small JPG Photo
 - ▶ Hierarchy of management with a company

Commercial Processor Workload (CPW)

= Need HW Upgrade for any WAS

**Under 512MB
Under 300 CPW**

**512MB - 1GB
300 - 500 CPW**

**Over 1GB
Over 500 CPW**

Bxx, Cxx, Dxx, Exx, Fxx	170 / #2407, #2408, #2409	530 / #2150, #2151
S10, S01, Pxx	200, 20S, 250	600
S20 / #2161, #2163	270 / #2422, #2423, #2424	620 / #2175, #2179, #2180, #2181
100, 150	270 / #2248, #2452, #2454	720 / #2061
170 / #2159, #2160, #2164	3xx, 4xx	820 / #2425, #2426, #2457, #2456
170 / #2289, #2290, #2291	500, 510, 50S	
170 / #2292	53S / #2154	

= ALL = WAS Express, WF & ITD

S30 / #2257	620 ¹
S20 / #2170, #2165	640 / #2185, #2186, #2187
170 / #2176, #2183, #2383	640 / #2237
170 / #2384, #2385, #2386	720 / #2062
270 / #2250, #2431	820 / #2395, #2427, #2458
53S / #2155	800
530 / #2152	810

SB1, SB2, SB3	640 / #2238, #2239
S20 ¹ , S30 ¹ , S40	650
170 / #2388	720 ¹ , 730, 740
270 / #2252, #2253	820 ¹ , 830, 840
270 / #2432, #2434	825
53S / ##2156, #2157	870
530 / #2153, #2162	890

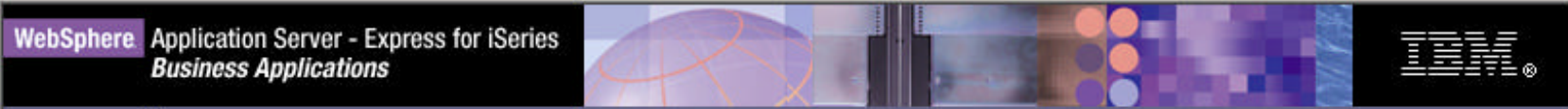
www.ibm.com/series Use workload estimator. Is your iSeries ready for WAS?

1 = Except as listed above

= WAS-X, V5, ND, WebFacing, ITD, +1000+ cpw = Portal & Commerce ++

Easily demonstrate this new application...
powered by Websphere V5


- Favorites**
- Add... Organize...
 - Links
 - Desktop.ini
 - http--sdoprod1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
 - [e-business] Advisor ERP-EAS
 - iSeries 400 University
 - Information Needed for a P...
 - ISV SolutionLink
 - WebMD - Search Results
 - Membership center
 - [100hot Home Page]
 - [e-business] Advisor ERP-...
 - Imported bookmarks
 - Freeware for iSeries 400 W...
 - Software Group Marketing ...
 - IBM Intranet Virus Site
 - WebSphere Development T...
 - ibm.com - WebSphere Com...
 - Armstrong Zoom Cable Inte...
 - Passport Advantage @ The...
 - Rochester SiteNews
 - Server Brand Management ...
 - Briefings-RTPSWS
 - IBM WebSphere - middlewa...
 - CRN Breaking News IBM Pi...
 - Media
 - RealPlayer Home Page



Home

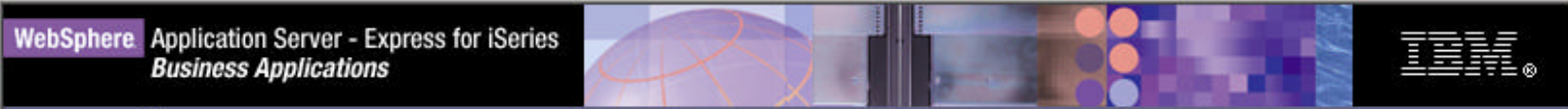
Welcome

You are at the business applications home page. Select one of the following applications. You will be prompted to log in if necessary.

 [IBM Telephone Directory](#)
 Lookup your co-workers online.

(C) COPYRIGHT IBM CORP. 2002 ALL RIGHTS RESERVED

- Favorites**
- Add... Organize...
 - Links
 - Desktop.ini
 - http--sdoprod1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
 - [e-business] Advisor ERP-EAS
 - iSeries 400 University
 - Information Needed for a P...
 - ISV SolutionLink
 - WebMD - Search Results
 - Membership center
 - [100hot Home Page]
 - [e-business] Advisor ERP-...
 - Imported bookmarks
 - Freeware for iSeries 400 W...
 - Software Group Marketing ...
 - IBM Intranet Virus Site
 - WebSphere Development T...
 - ibm.com - WebSphere Com...
 - Armstrong Zoom Cable Inte...
 - Passport Advantage @ The...
 - Rochester SiteNews
 - Server Brand Management ...
 - Briefings-RTPSWS
 - IBM WebSphere - middlewa...
 - CRN Breaking News IBM Pi...
 - Media
 - RealPlayer Home Page



Home



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Search

Search for an employee using the fields below.

Search On: [Advanced Search](#)

Search For:

Search Tips


When searching by name, enter the last name first. To search for matches that begin or end with the same characters, use an asterisk as a wildcard.


Examples of searches by name:

- Smith, John
- smi*,j
- *ith

- Favorites**
- Add... Organize...
 - Links
 - Desktop.ini
 - http--sdoprod1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
 - [e-business] Advisor ERP-EAS
 - iSeries 400 University
 - Information Needed for a P...
 - ISV SolutionLink
 - WebMD - Search Results
 - Membership center
 - [100hot Home Page]
 - [e-business] Advisor ERP-...
 - Imported bookmarks
 - Freeware for iSeries 400 W...
 - Software Group Marketing ...
 - IBM Intranet Virus Site
 - WebSphere Development T...
 - ibm.com - WebSphere Com...
 - Armstrong Zoom Cable Inte...
 - Passport Advantage @ The...
 - Rochester SiteNews
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WebSphere Application Server - Express for iSeries Business Applications



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Search

Search for an employee using the fields below.

Search On: [Advanced Search](#)

Search For:

[Have Same Manager](#)

[Report-to-Chain](#)

[Update Profile](#)

[Change Password](#)

[Delete Profile](#)

Rush, Leif I

Preferred First Name:
Job Responsibility:

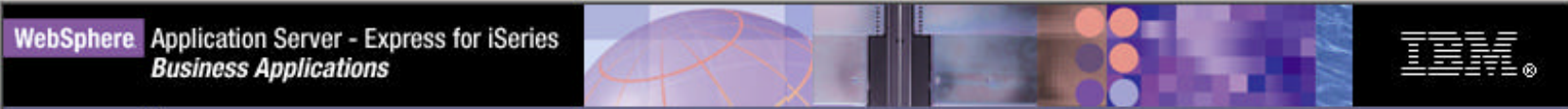
Leif
Lotus software for
iSeries Marketing
and Life Sciences
software engineer
507-253-8738



Phone (Primary):
Email:
Business Address:

leifrush@us.ibm.com
3605 Highway 52
North
Rochester, MN
55906

- Favorites**
- Add... Organize...
 - Links
 - Desktop.ini
 - http--sdoprods1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
 - [e-business] Advisor ERP-EAS
 - iSeries 400 University
 - Information Needed for a P...
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 - [e-business] Advisor ERP...
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 - Freeware for iSeries 400 W...
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 - IBM Intranet Virus Site
 - WebSphere Development T...
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Search for an employee using the fields below.

Search On: [Advanced Search](#)

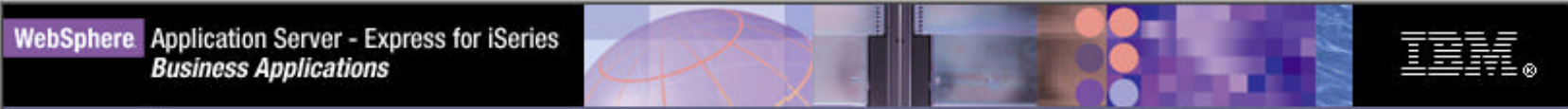
Search For:

Search Results

Click on a name below to access that individual's profile.

Name	Phone (Primary)	Email Address	Job Responsibility
Palmisano, Sam	914-499-5900	sam@us.ibm.com	Chairman & Chief Executive Officer
Zeitler, Bill	914-766-4000	zeitler@us.ibm.com	Sr. VP & Group Executive IBM Systems Group
Zollar, Al	914-766-4400	al_zollar@us.ibm.com	General Manager , iSeries Systems Group
Chew, David	914-766-1640	djchew@us.ibm.com	Director, Enterprise Transaction Systems
Schmotzer, Kelly	216-664-7226	kschmotz@us.ibm.com	Sr. Marketing Manager Websphere - SMB
Rush, Leif I	507-253-8738	leifrush@us.ibm.com	Lotus software for iSeries Marketing and Life Sciences software engineer

- Favorites**
- Add... Organize...
 - Links
 - Desktop.ini
 - http--sdoprods1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
 - [e-business] Advisor ERP-EAS
 - iSeries 400 University
 - Information Needed for a P...
 - ISV SolutionLink
 - WebMD - Search Results
 - Membership center
 - [100hot Home Page]
 - [e-business] Advisor ERP-...
 - Imported bookmarks
 - Freeware for iSeries 400 W...
 - Software Group Marketing ...
 - IBM Intranet Virus Site
 - WebSphere Development T...
 - ibm.com - WebSphere Com...
 - Armstrong Zoom Cable Inte...
 - Passport Advantage @ The...
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Advanced Search

Refine your search by using one or more of the options below.

Last Name:

First Name:

Job Responsibility:

Phone (Primary):

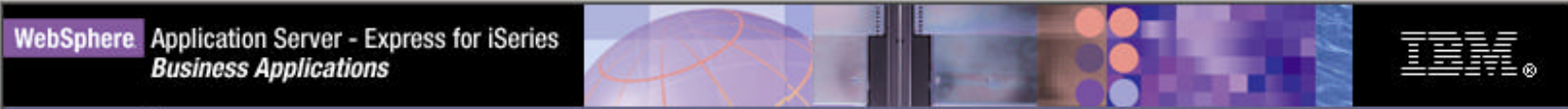
Email Address:

Division:

Department:

Search

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- Add... Organize...
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 - Desktop.ini
 - http--sdoprods1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
 - [e-business] Advisor ERP-EAS
 - iSeries 400 University
 - Information Needed for a P...
 - ISV SolutionLink
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 - [e-business] Advisor ERP-...
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 - Software Group Marketing ...
 - IBM Intranet Virus Site
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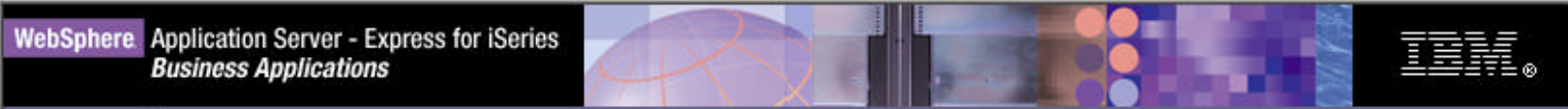
Search For:

Search Results

Click on a name below to access that individual's profile.

Name	Phone (Primary)	Email Address	Job Responsibility
Cioffi, Jim	817-555-1212	jacioffi@yahoo.com	Consulting IT Architect, Domino, Technical Support Marketing
Gaylord, George	(812) 465-1512	ggaylord@us.ibm.com	iSeries Windows Integration Marketing
Grube, Todd	507-253-1880	tgrube@us.ibm.com	Global Technical Support Marketing Manager
Kerr, Roger Q	914-642-6423	rqkerr@us.ibm.com	WebSphere SMB Marketing
Quarantello, John M.	817-962-8781	quarant@us.ibm.com	iSeries & WebSphere Marketing
Ray, James A	845-435-7421	jimray@us.ibm.com	Technical Support Marketing - eServer Solutions
Rush, Leif I	507-253-8738	leifrush@us.ibm.com	Lotus software for iSeries Marketing and Life Sciences software engineer
Schmotzer, Kelly	330-725-6842	kschmotz@us.ibm.com	Marketing Manager Websphere - SMB

- Favorites**
- Add... Organize...
 - Links
 - Desktop.ini
 - http--sdoprod1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
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 - Imported bookmarks
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Register

[Exit Register](#)

Fill out the fields below and click 'Submit' to register and create your profile for listing within the IBM Telephone Directory. A suggested User ID will be prefilled below based on the name you enter. However, you may change the User ID to a different value if you prefer to do so. Fields marked with an asterisk (*) are required.

Registration Information

First Name: *

Middle Initial:

Last Name: *

Suffix: e.g., Jr.

User ID: *

Password: * Max. 16 characters

Confirm Password: *

Profile Information


Preferred First Name: e.g., Bob

Title:


Alternate Last Name:

- Favorites**
- Add... Organize...
 - Links
 - Desktop.ini
 - http--sdoprods1.austin.ibm...
 - IBM Corporation
 - IBM Intranet
 - [e-business] Advisor ERP-EAS
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 - [e-business] Advisor ERP...
 - Imported bookmarks
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 - Software Group Marketing ...
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Office:

Marketing Territory:

Employee Type:

Management Employee? No Yes

Alternate User ID:

Shift:

Manager Name:

Assistant Name:

Backup Name:

Additional Information:

To include a picture for display with your profile, use the button below to locate the image file:


Photo:

width: 115px - height: 115px maximum
jpeg files only

[Exit Register](#)

- Favorites
- Add... Organize...
- Links
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- http--sdoprods1.austin.ibm...
- IBM Corporation
- IBM Intranet
- [e-business] Advisor ERP-EAS
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- WebSphere Development T...
- ibm.com - WebSphere Com...
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Search for an employee using the fields below.

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Search For:

[Have Same Manager](#)

[Report-to-Chain](#)

[Manages](#)

[Update Profile](#)

[Change Password](#)

[Delete Profile](#)

Zollar, Al

Preferred First Name: **Al**
 Job Responsibility: **General Manager ,
 iSeries Systems
 Group**

Phone (Primary): **914-766-4400**
 Email: al_zollar@us.ibm.com



Manager: [Zeitler, Bill](#)

Country: **USA**

How to obtain IBM Telephone Directory

- Are you an existing WAS 3.5 iSeries customer who obtained the 3.5 code before Jan 24, 2003?
- Are you receiving WAS Express in a SW Edition (bundle) with your new iSeries hardware?
- Are you ordering WAS-Express for existing hardware?
- Are you ordering WAS 5 or Network Deployment?
- A Few options.....

Are you existing WAS 3.5 SE iSeries customer who obtained 3.5 iSeries code *on or before* Jan 24, 2003 and has current/active iSeries Software Subscription?

- WAS - Express is yours at no charge - equal number of processor entitlements
 - ▶ Order Via Business Partner or Rep - via Configurator
 - IBM Telephone Directory V5.1 for iSeries
Part Number in Configurator - 45P9753
 - ▶ Maintenance for WAS Express-entitlement customers must order Maintenance renewal for WAS Express entitlement via Passport Advantage.
 - ▶ Use Passport to order maintenance and support.
 - Part Number E00NDLL WAS-Express Maintenance
 - ▶ Additional copies of Express needed? Purchase those licenses via Passport www.ibm.com/software/passportadvantage or through your IBM or Partner Representative or IBM.com

Are you receiving WAS Express in a SW Edition (bundle) with your new iSeries hardware?

- Telephone Directory CD will be in the box with WAS - Express
- REGISTER WAS - Express for the no charge one year SW maintenance at this url
 - ▶ <http://www-1.ibm.com/servers/eserver/series/hardware/editions/index.html>
 - ▶ Additional copies of WAS - Express needed? Purchase those licenses via Passport www.ibm.com/software/passportadvantage or through your IBM or Partner Representative or IBM.com

Are you ordering WAS-Express separately through Passport for existing hardware?

- WAS -Express for iSeries is ordered via Passport
 - ▶ www.ibm.com/software/passportadvantage
 - ▶ see price chart in Appendix
- Do nothing to order IBM Telephone Directory
 - ▶ It will arrive on CD in the same box as WAS - Express

Are you ordering WAS 5 or Network Deployment? You are entitled to ITD.

- WAS V5 Base and WAS V5 Network Deployment CAN be ordered 2 ways
 - Configurator today
 - PassPort Advantage
 - Future plan for all cross-platform SWG products to be orderd via Passport Advantage
 - Recommend all become familiar with the IBM Passport Advantage program
 - ▶ Order Telephone Directory via Passport Advantage
 - Passport Media Packs
 - BA09PML Processor \$25 media charge
 - BA09VML 20 Users \$25 media charge
 - BA09TML Developers \$25 media charge
 - BA09NML ITD Processor \$25 media charge
 - Access this web site for more Passport information:
 - www.ibm.com/software/passportadvantage
 - ▶ Or Order Telephone Directory via Catalog - 1-800-IBM-CALL (US)
 - 45P9753 \$25 media charge
- http://www.lotus.com/services/passport.nsf/WebDocs/Passport_Advantage_Home

Example of per-processor Pricing

- Customer has **2Way** Processor with V5.2 OS/400
 - ▶ Wants WAS-Express and Telephone Directory
 - WAS Express @ \$2k per processor
 - \$2k x 2 processors = **\$4k**
 - IBM Telephone Directory will be a no-charge CD in the WAS- Express Package
 - ▶ If ordering ITD separately - order ONLY from Passport
 - ITD **Media** Charge @ **\$25.**
 - No per user charge for ITD
 - No per processor charge for ITD

Creative ways to use IBM Telephone Directory

- Use your ITD entries for vendors, suppliers, most frequently called numbers (particularly if you have fewer than 1000 employees)
- ITD can be used for Intranet, Extranet or Internet directory depending upon how you secure it
- Integrate LDAP table data into any application
- ITD Redbook explains how to change Title page and how to put a search bar on your home page for external use

Next generation iSeries...simplicity in an on demand world

- **WebSphere is critical to iSeries customers e-business success in future**
 - **WebSphere-Express V5 is most important WebSphere announcement ever for iSeries**
 - **WebFacing does NOT require 5250 CPW with NEW hardware (ONLY)**
- **iSeries customers & ISV's have many low-cost options to "Start Simple"**
 - **WebSphere-Express V5 for iSeries**
 - **IBM Telephone Directory**
 - **IBM WebFacing Tool**
 - **iSeries Access for the Web**
 - **WebSphere Host Publisher**
 - **HATS**
- **Education & services likely to be required for customers**
 - **WebSphere is still a relatively complex environment**

Thank You
for your interest in
IBM Telephone Directory
for iSeries

Information is provided "AS IS" without warranty of any kind.

Appendix

Where to find support for IBM Telephone Directory

- **IBM Supportline** - if....your support contract entitles you to WAS V5 (Base,Express or ND) support, or if you have purchased Support and Maintenance for WAS 5, V5 ND or V5 WAS Express you are entitled to telephone support on IBM Telephone Directory
- **www.ibm.com/redbooks:** Websphere Application Server - Express for iSeries
- **TECHLINE HELP:**
 - ▶ **EMEA** Techline iSeries focal point manager:
 - Giordano Migliorini/Italy/IBM
 - ▶ **AP** Techline iSeries focal point manager is:
 - Shinpei Sakamoto/Japan/IBM@IBMJP
 - ▶ **US** Techline iSeries focal point manager is:
 - Becky DeLisle/Providence/IBM,
 - ◆ IBMers can call 1-888-426-5525
 - ◆ Entitled US/Canada BPs can call Partnerline at 1-800-426-9990
- **To purchase ITD** on iSeries for more than 1000 users contact: Global Services or your local IGS BCS Rep.
<http://www.ibm.com/servers/eserver/series/software/websphere/wsappserver/>
- **(IBM ONLY SITES)**
<http://wcs.haw.ibm.com/servers/eserver/series/software/websphere/wsappserver/express/indexexp50.html>
- <http://wcs.haw.ibm.com/servers/eserver/series/software/websphere/wsappserver/itd/indexitd50.html>
- To **demonstrate** the ITD - from inside IBM firewall go to: <http://elcrtp25.raleigh.ibm.com:3633/bizApps>

Things to remember about IBM Telephone Directory for iSeries

IBM Telephone Directory is an exclusive iSeries offering today

By contacting IBM Global Services, by special-bid IGS will deliver customization, porting and delivery on other IBM Platforms.

If you are not ordering Websphere Application Server - Express, (where the Directory is shipped on CD with Express), you will need to order Telephone Directory via Passport to work with WAS V5 or WAS Network Deployment. Only a media (\$25.) charge will be in place if ordered separately via Passport.

No processor or user fee on iSeries for up to 1000 entries

(After 1000 entries - Directory can be purchased/customized from IGS with special bid)

Is designed as a test application to test Websphere 5 on iSeries

Can be used in production environment for up to 1000 entries,

Supported under the WAS supportline Contracts

IBM Telephone Directory code is owned by IBM Global Services - all special bids (for over 1000 entries or other HW Platforms) must be managed by IGS

Business Partners also must engage an IGS BCS Rep to special bid.

At the registration of the 1000th user entry - an error message is sent to the user and to the administrator - administrator receives instructions for contacting IGS to purchase code for more than 1000 entries.

Most often-asked questions

- **Are Users required to enter their own data or can data be proliferated to the directory via other means?**
 - ▶ There are several ways to input data into the directory.
 - 1) If Admin chooses to: Users can enter via the IBM Telephone Directory (ITD) provided GUI screen (picture in this presentation)
 - 2) Admin can use LDIF files to populate the directory (bulk loading).
 - 3) Admin can use an existing directory that contains directory entries defined with the field "inetorgperson" object class.
 - You can use your existing directory that was populated from the System Distribution Directory using the IBM provided publishing agent.
 - IBM Telephone Directory for iSeries V5.1 easily integrates with existing Domino 6.0 servers and Domino user information. IBM Telephone Directory can be used to search a Domino address book for Domino user information, such as names, phone numbers and email addresses. Also, IBM Telephone Directory can be used to managed Domino address book updates, while integrating with Domino security to maintain user information privacy and protection.
 - ▶ The Redpiece on www.redbooks.ibm.com called Websphere Application Server Express for iSeries is very helpful.
 - ▶ Also, we are looking at future enhancements in this area like being able to sync data from other sources. Some are not available at first offering.

- **If I purchase a NEW iSeries and order the SW Edition that includes WAS - Express, will IBM preinstall for me?**
 - ◆ Customers who purchase new iSeries do have a nice advantage. WAS-Express is pre-installed as is the Telephone Directory Application.

Most often-asked questions (Continued)

- **Can I integrate this Telephone Directory into my lines of business applications (like HR, company intranet buy site?)**
 - ▶ Yes to *some* degree...The IBM Telephone Directory uses LDAP directory that has usable APIs. Thus your business applications could populate the directory, search, update using LDAP APIs.
 - But IBM does not provide the interfaces to using the ITD GUI (servlets) and we do not provide source (so GUIs cannot be changed). So at this time there are no direct APIs to the Telephone Directory within the no additional charge product. IBM Global Services could be employed to build what the customer needs after the ITD is purchased by the customer with special bid.
 - Please remember this application is delivered for the primary reasons mentioned on page 3

- **If I order the Telephone Directory separately via Passport because I use WAS V5 or WAS Network Deployment instead of WAS Express... what is the installation procedure of the Telephone Directory?**
 - ▶ Because we deliver ITD *WITH* Websphere Application Server - Express, it uses the WAS Express GUI installation procedure. In WAS-Express, you simply click that you want it to create a WAS Express instance and choose option 3 to install ITD.
 - ▶ Since ITD is ordered *separately* from WAS 5 or WAS ND, the installation will be different.
 - There will be documentation to walk you through deploying the application which consists of taking the "EAR" file and deploying it with the console deployment interface. There will be links from both WAS base docs and from WAS - Express docs. The current WEBSHERE ISERIES site will have a link after the announcement in Jan 2003. The CD labels will have the following URLs:
 - IBM WebSphere Application Server - Express, V5.0
 - ◆ <http://www.ibm.com/eserver/series/installexpress50>
 - IBM Telephone Directory
 - ◆ <http://www.ibm.com/eserver/series/installibmteldir51>

Questions

(Continued)

- **A person is registered in the Telephone Directory as a Manager and there are 10 people linked to him as their manager. If the Administrator has to delete that manager's profile for any reason... then the manager re-registers himself with all the same user id data, will the links to the 10 people be gone? Or will they stay?**
 - ▶ If a manager, assistant, or backup entries are deleted, links to them will no longer be displayed. If the entries are recreated (using same CN/UID values), the links will appear again, automatically.
 - ▶ Furthermore, when manager entries are deleted:
 - the Reports-To Chain page (for entries linked to it) will no longer work, until the manager entry is recreated
 - the Same-Department page will still work, however, even though the manager's entry is no longer there

- **Are there any PTF's (code fixes) we need to apply in addition to the Telephone Directory Code? What about tech docs?**
 - ▶ Yes, insure that you have all available PTFs for the IBM Telephone directory ***before*** you begin the installation. <http://www-1.ibm.com/servers/eserver/series/software/websphere/wsappserver/> (or easier to remember www.ibm.com/series/websphere)

- **Is there a recommended procedure for proliferating user data into the IBM Telephone Directory?**
 - ▶ ITD was designed as a USER application to have the data input by the individual employees. A message can be sent First to all Executives and Managers asking them to Register and enter their field data (name, address, phone, etc.). Then when the non-managers register, they will be easily able to link themselves to their individual manager....therefore building the hierarchy. Otherwise users will need to edit their registration to locate their manager and create the link at a later date. See this Q&A for other methods.

Questions

(Continued)

- **If a customer owned WAS 3.5 before Jan 24, 2003, he deserves a no-charge copy of WAS-Express. How does he order it?**
 - ▶ Software is ordered via our HW/SW Distributors. The Distributor would use the IBM AAS Ordering system for the no-charge Express upgrade from WAS 3.5. WAS-Express is otherwise ordered via Passport or it might come with the SW Edition (*bundle*) when new iSeries hardware is ordered.

- **What is the error message that the Administrator receives when the 1001st user tries to add his/her registration entry?**
 - ▶ The message will say: ERROR: The number of profiles allowed for the IBM Telephone Directory trial product have been exceeded.
 - Your IBM Telephone Directory application administrator should reference the 'WebSphere Application Server for iSeries' web site for information on how to purchase a full product license for the IBM Telephone Directory.

- **Do any IBM Phone numbers appear in this directory?**
 - ▶ No. This application is *called* IBM Telephone Directory because IBM built it. But the Directory contains whatever data is entered by you about your own company. It is a Telephone Book...feel free to enter Names/Numbers that will benefit most employees. Remember the 1000 entry limit.

Questions (Continued)

- **What is the difference between the "IBM Telephone Directory" Application, and the "PeopleFinder" function that is part of Websphere Portal Extend and Websphere Portal Experience Products?**
 - ▶ **IBM Telephone Directory** (ITD) has no charge for up to 1000 users and is exclusively being shipped with WAS - Express.
 - ▶ ITD is a simple application for the purpose of testing and using Websphere Express and V5...but can also be an excellent production application to locate resources - likely best targeted for the small and medium size businesses.
 - ▶ ITD does not require Portal to be installed. ITD is a full Application which uses LDAP tables to proliferate data
 - ▶ Telephone Directory is delivered on CD in the WAS Express package - only for iSeries.

 - ▶ **PeopleFinder** is part of Portal Extend and Portal Experience solutions that are priced as normal software. PeopleFinder is targeted at the higher-end customer or the Enterprise space and PeopleFinder is only one component
 - ▶ People Finder is more middleware that points to many choices of applications and data sources.
 - ▶ Portal Extend and Portal Experience are not available on iSeries as they are designed more for the larger Enterprises..

These are quite different applications -- if the customer just wants a directory application -- then the IBM Telephone Directory more than fits.

If the customer hopes to create an e-workplace with directory lookup and collaboration, then Portal with the People Finder features is probably a better fit.

Because both use LDAP Standards... both solutions can use the same LDAP tables

WAS Express for iSeries V5 Price List

	<u>Shrinkwrap</u>		<u>Electronic Delivery</u>		
45P9760	Processor Prg Pk	\$2000	45P9761	Processor eSD	\$1,975
45P9800	20 User Prg Pk	\$500	45P9801	20 User eSD	\$475
45P9774	Developer Prg Pk	\$400	45P9775	Developer eSD	\$375
45P9753	ITD Processor Prg Pk	\$25	45P9754	ITD eSD	\$0
	<u>Passport Advantage</u>				
	PROCESSOR			20 USERS	
D524PLL	Lic + Maint to 1st Anniv	\$1913	D5255LL	Lic + Maint to 1st Anniv	\$458
D524QLL	Lic + Maint to 2nd Anniv	\$2296	D5256LL	Lic + Maint to 2nd Anniv	\$550
E00NDLL	Maint Renewal	\$425	E00NILL	Maint Renewal	\$102
D524RLL	Maint Aft Lic	\$1275	D5257LL	Maint Aft Lic	\$305
	<u>Developer</u>			<u>TELEPHONE DIRECTORY</u>	
D524WLL	Lic + Maint to 1st Anniv	\$361	D524ILL	Lic + Maint to 1st Anniv	\$0
D524XLL	Lic + Maint to 2nd Anniv	\$433	D524JLL	Lic + Maint to 2nd Anniv	\$0
E00NFLL	Maint Renewal	\$80	E00NBLL	Maint Renewal	\$0
D524YLL	Maint Aft Lic	\$241	D524KLL	Maint Aft Lic	\$0
	<u>Passport Media Packs</u>			<u>Passport Tradeups</u>	
BA09PML	Processor	\$25	D524SLL	from 20 users to processor-based	\$1,435
BA09VML	20 Users	\$25	D525CLL	competitive trade-in	\$1,435
BA09TML	Developers	\$25	D525DLL	to WAS v5 from WAS Express	\$5,924
BA09NML	ITD Processor	\$25			

Configurator Orders only via iSeries Hardware Offering. Passport orders use these part numbers.

All price lists subject to change- this one valid at this writing - Jan 2003

WebSphere Distributed Pricing - includes iSeries

Product	Part#	US SRP	ShopIBM SRP	CN ShopIBM SRP
Digital Delivery				Canada
WebSphere Appl Svr-Express Processor V5.0 for iSeries Multilingual (1,417 MB) (Digital Delivery)	45P9761	\$1,975.00	\$1,778.00	C\$2,907.00
WebSphere Appl Svr-Express 20 Users V5.0 for iSeries Multilingual (1,417 MB) (Digital Delivery)	45P9801	\$475.00	\$428.00	C\$700.00
WebSphere Appl Svr-Express Developer V5.0 for iSeries Multilingual (1,417) (Digital Delivery)	45P9775	\$375.00	\$338.00	C\$553.00
Program Packs				
WebSphere Appl Svr-Express Processor V5.0 for iSeries Prgm Pk Multilingual	45P9760	\$2,000.00	\$1,900.00	C\$3,107.00
WebSphere Appl Svr-Express 20 Users V5.0 for iSeries Prgm Pk Multilingual	45P9800	\$500.00	\$475.00	C\$777.00
WebSphere Appl Svr-Express Developer V5.0 for iSeries Prgm Pk Multilingual	45P9774	\$400.00	\$380.00	C\$621.00
IBM Telephone Directory V5.1 for iSeries PROG PK Processor Multilingual	45P9753	\$25.00	\$24.00	C\$39.00

Product	Part#	US SRP	ShopSRP	CN ShopSRP
Digital Delivery - Available 11/26/2002				
WAS 5.0 Multiplatform 1 Processor NLV (Digital Delivery)	45P8844	\$7,975.00	\$7,178.00	C\$11,736.00
WAS 5.0 for zSeries (S/390) 1 Processor NLV (Digital Delivery)	45P8845	\$7,975.00	\$7,178.00	C\$11,736.00
WAS Network Deployment 5.0 Multiplt 1 Processor NLV (Digital Delivery)	45P8875	\$11,975.00	\$10,778.00	C\$17,622.00
WAS Network Deployment 5.0 for zSeries (S/390) 1 Processor NLV (Digital Delivery)	45P8876	\$11,975.00	\$10,778.00	C\$17,622.00

Program Packages - Available 12/13/2002	Part#	US SRP	ShopSRP	CN ShopSRP
WAS 5.0 Multiplatform PROG PK 1 proc NLV	45P8842	\$8,000.00	\$7,600.00	C\$12,426.00
WAS 5.0 for zSeries (S/390) PROG PK 1 proc NLV	45P8843	\$8,000.00	\$7,600.00	C\$12,426.00
WAS Network Deployment 5.0 Multiplt PROG PK 1 Proc NLV	45P8872	\$12,000.00	\$11,400.00	C\$18,639.00
WAS Network Deployment 5.0 for zSeries (S/390) PROG PK + 1 Proc NLV	45P8873	\$12,000.00	\$11,400.00	C\$18,639.00

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Stylized	HTTP Server for AS/400	Net.Commerce	WebSphere Development Tools for AS/400
AIX	IBM	Net.Data	WebSphere Standard Edition
DB2 UDB for AS/400	IBM Logo	PowerPC	
Application Development	e-business logo	PowerPC AS	
APPN	Payment Manager	VisualAge for RPG	
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