

iSeries. mySeries.

**IBM eServer[®] i5 & i5/OS[™]
August 19, 2004
Announcement Overview**

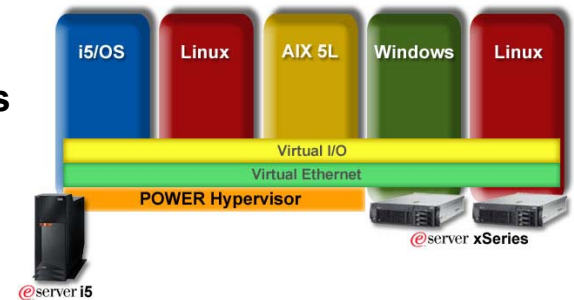


IBM eServer i5 Announcements 8/17

- **New eServer i5 550** (GA 9/10)
 - Delivers flexible, on demand midrange server

- **New targeted 550 editions** (GA 9/10)
 - **Solution Edition**
 - Aggressive offering together with select ISV solutions
 - **Domino Edition**
 - Competitively priced offering for collaborative applications

- **Complete delivery of products previewed in May**
 - **Virtualization Engine enhancements** (GA 8/27)
 - **IXA & Linux support** (GA 8/31)



Introducing the IBM eServer i5 550



Deskside

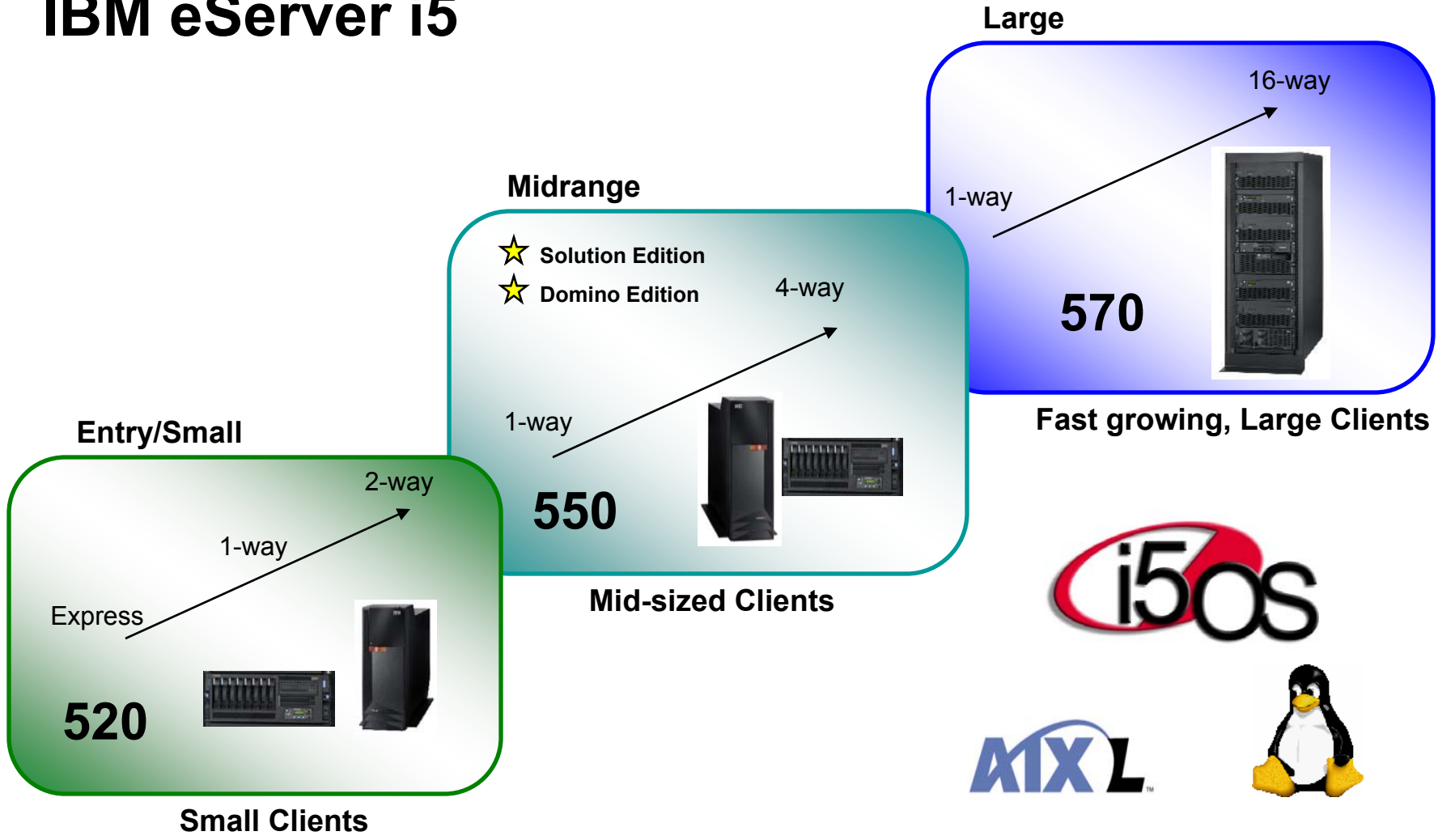
- 1/4-way server
- 1 license of i5/OS
- Similar capability to i5 570 2/4-way
- Multiple Editions – Standard, Enterprise, Solution, Domino

- Flexible on demand pricing in a midrange server
- Exceptional flexibility for consolidating servers and applications
- Supports up to 40 partitions
- Lower priced, 4-way capable server

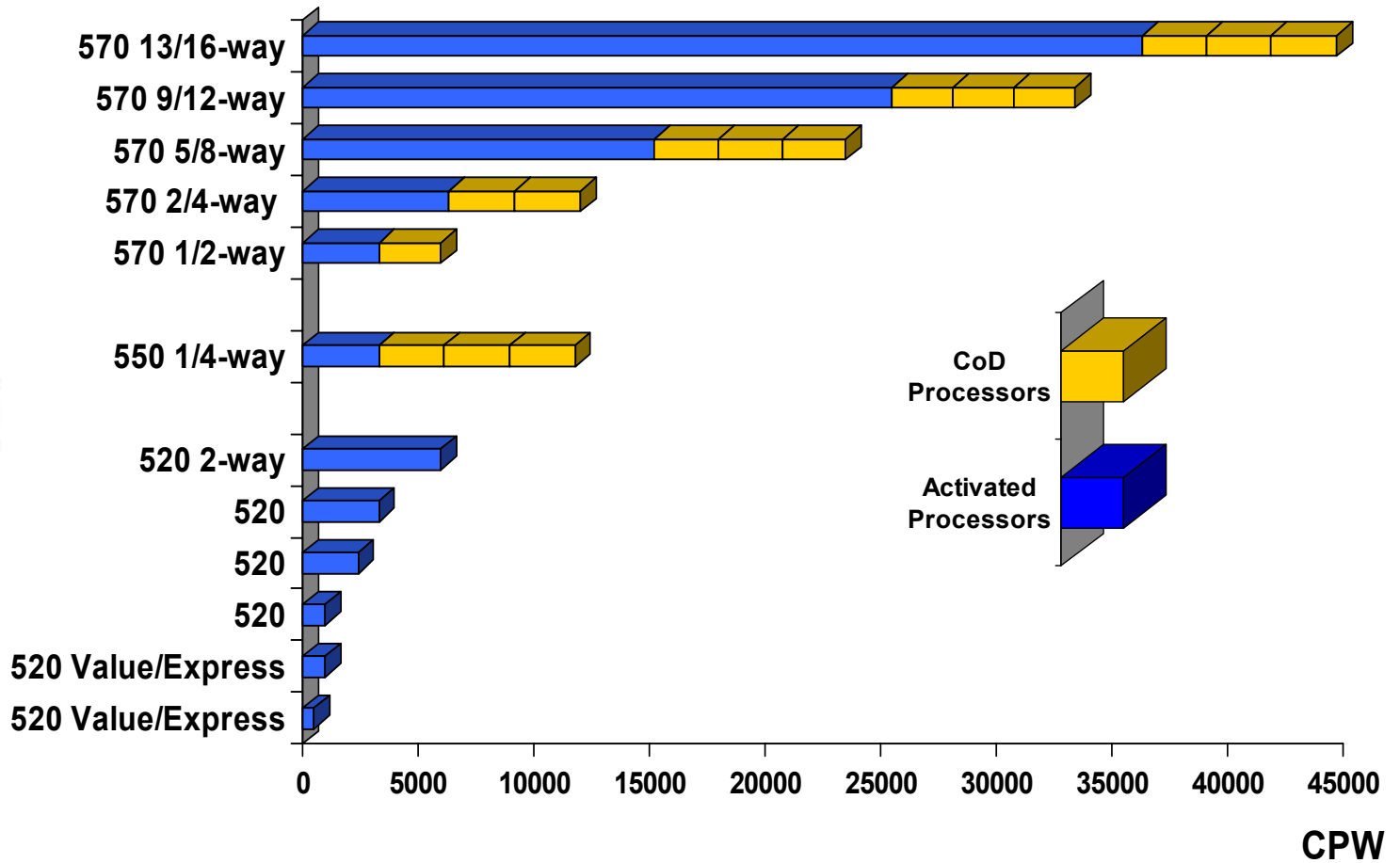


Rack mount

IBM eServer i5



IBM eServer i5 - Hardware



IBM eServer i5 550

- Configuration options
 - Desk side or rack mount
 - 1/4-way 1.65 GHz POWER5 processor

- Flexible on demand pricing
 - 1 license i5/OS
 - 3 processors available for growth/consolidation
 - Choice to deploy i5/OS, AIX 5L, Linux

- Growth options
 - Starts at 3,300 CPW, up to 12,000 CPW
 - Up to 64 GB memory
 - Up to 38 TB disk storage

- Features Standard, Enterprise, Solution and Domino Editions
 - Second processor activation included on all editions

Rack mount



Desk side

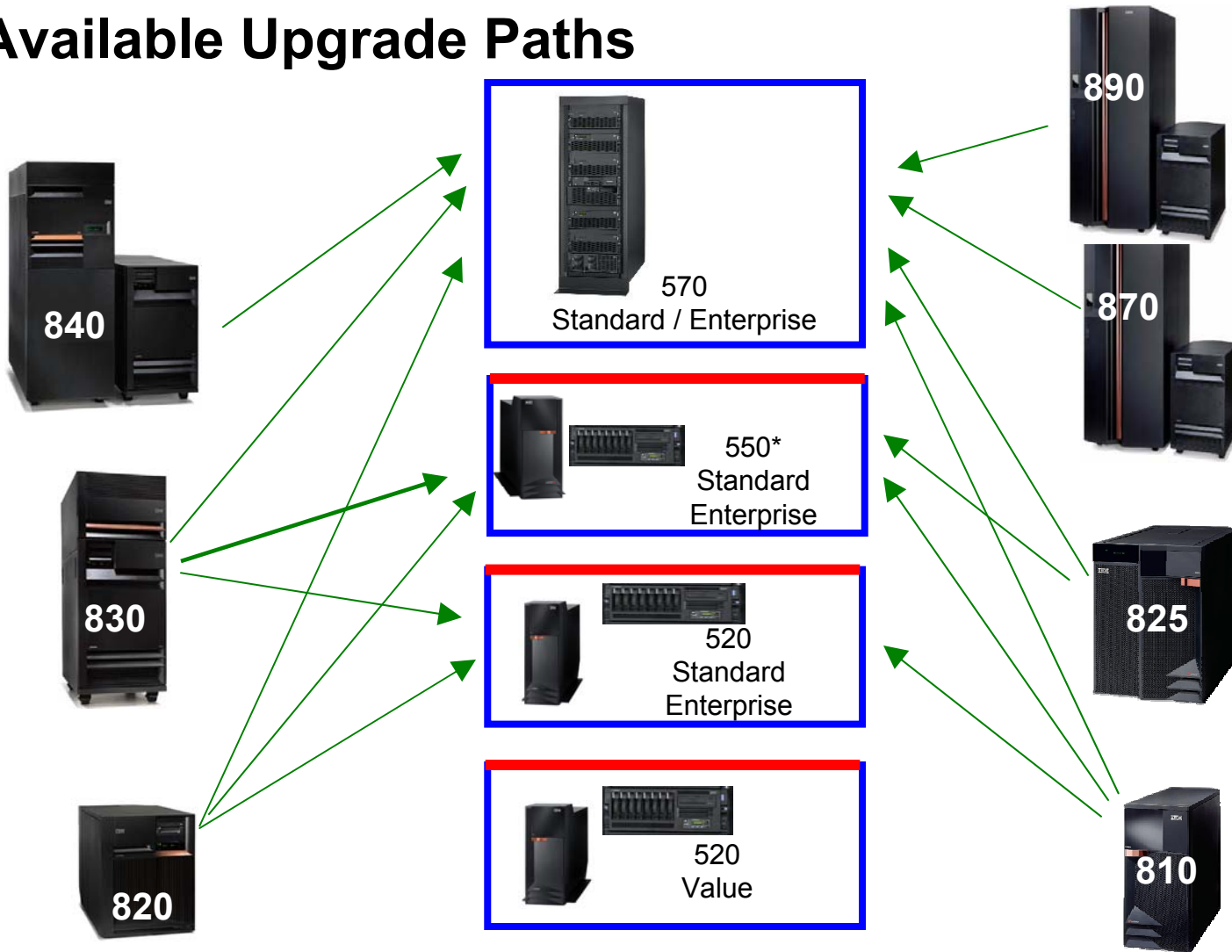




Comparing eServer i5 520, 550, 570

	520 Value, Express	520	550	570
N-way	1-way	1-way & 2-way	1/4-way	1/2-way, 2/4-way, 5/8-way, 9/12-way, 13/16-way (2/16-way CBU)
Processor CPW	500 - 1000	1000 - 6000	3300 - 12000	3300 - 44700
Edition	Value, Express	Std, Ent, HA	Std, Ent, Sol. Dom	Std, Ent, HA, CBU
POWER5 Processor	1.5 GHz	1.5 & 1.65GHz	1.65 GHz	1.65 GHz
Memory (Max)	32 GB	32 GB	64 GB	512 GB
CoD processors	No	No	Yes	Yes
CoD memory	No	No	No	Yes
HSL-2 Loops (Max)	1	1	2	8
I/O Towers/drawers (Max)	6	6	12	30
Disk Drives (Max)	278	278	548	1374
Disk (Max)	19 TB	19 TB	38 TB	96 TB
IXS / IXA (Max)	18 / 8	18 / 8	36 / 16	48 / 60
Software Tier	P05 – P10	P10 – P30	P20	P30 – P40
Upgrade into model	No	Yes	Yes	Yes
Upgrade out of model	No	No	No	Not announced

Available Upgrade Paths



eServer i5 Solution Edition



- Provide incentive for customers to update their solutions (both server & application)
- Excite top ISVs to work together with IBM
- Provide superior value and competitive pricing for customers
- Deliver flexible, scalable server for adding new applications

- Available on eServer i5 550
- Integrated middleware optimized for ISV solutions
- Lower priced variant of Enterprise Edition
- Requires purchase with ISV



Participating ISVs

ISV	Description	Industries
Clear Technologies, Inc.	C2 CRM Application	Cross Industry
IBS	Enterprise Applications	Cross Industry
Integrated Distribution Solutions, LLC.	Enterprise Applications: Power Enterprise (ERP for Food Distribution)	Food Distribution
Intentia	Enterprise Applications	Cross Industry
Lawson®	Enterprise Applications for: Financials, HR, Procurement, Healthcare SCM, Distribution, Retail, and Service Process Optimization	Cross Industry
Manhattan Associates	SCM: Warehouse Management and Transportation Execution Solutions	Retail, Consumer Goods, CPG, High Tech, Government, Life Sciences, Industrial, Wholesale
MAPICS	Enterprise Applications	Industrial
PeopleSoft	Enterprise Applications	Cross Industry
SSA Global™	Enterprise Software Solutions	Cross Industry

eServer i5 Domino Edition



- Leverages Power5 processors to deliver competitive price/performance
- Next generation of collaborative offering
- Solution for customers who need to upgrade to Domino 6.x or MS Exchange 2003
- Deliver flexible, scalable server for collaborative applications and additional workload

- Available on eServer i5 550
- Solution for deploying Domino and collaborative applications
- Lower priced variant of Standard Edition
- Requires Domino licenses



Lotus. software

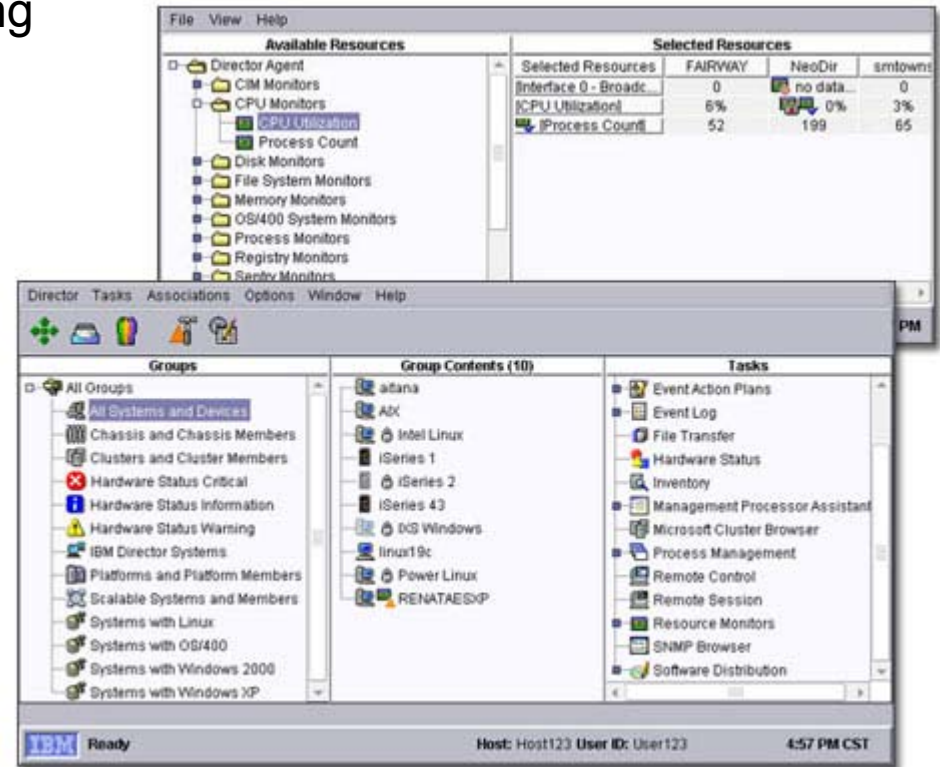
IBM eServer i5 Domino Edition

- eServer i5 550 feature code #7530
 - 2 active processors and 2 i5/OS licenses
 - P20 software tier
 - No Enterprise Enablement feature
 - No additional software
 - 14,100 MCU rating for 2-way
- Priced below Standard Edition
 - Domino Edition is approximately **48%** less for processor + 1 year SWMA
 - Domino Edition is approximately **42%** less for processor + 3 years SWMA
- Requires proof of license:
 - 2 Domino® server licenses
 - 1500 Lotus® client licenses (Notes®, Sametime®, QuickPlace®)



IBM Director Multiplatform

- Centralize management and monitoring for multiple operating environments
 - i5/OS, AIX 5L, Linux, and Windows operating systems
- Open standards-based heterogeneous management tool
- Complements iSeries Navigator
- Integrated with PM iSeries for collecting and reporting multi-OS CPU utilization and capacity planning
- *An IBM Virtualization Engine systems service*



AIX 5L Service Voucher

Included in 550 Enterprise and Solution Edition and 570 Enterprise Edition

Service includes:

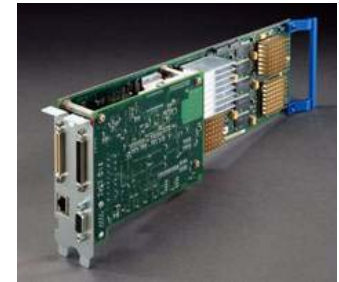
- 2 day IBM service engagement
- One license of AIX 5L
- One year SWMA
- Setup and configuration of AIX 5L in a partition
- Skills transfer on use of HMC to set up partitions, manage resources and configuration of AIX 5L



Requires web registration of edition for redemption of service voucher

New Integrated xSeries Adapter (1519-200)

- **Extends IXA support to new IBM eServer x346 with Xtended Design Architecture**
 - Rack-optimized 2U footprint
 - Up to 3.6 GHz Xeon, 1-2 way
 - x346 Planned Availability : Sept 27th *
- **Will also support new x236**
 - Tower, Up to 3.6 GHz Xeon 1-2 way
 - x236 Planned Availability : October 13th *
- **Does not replace 1519-100 for other xSeries**
- **Supported on eServer i5 and iSeries****
 - OS/400 V5R2 or later
 - Windows 2000 Server & Windows Server 2003 Support***
- **General Availability : August 31st**
- **Configurator Support : August 24th**
- See ibm.com/eserver/iseries/windowsintegration/xseriesmodels for more details



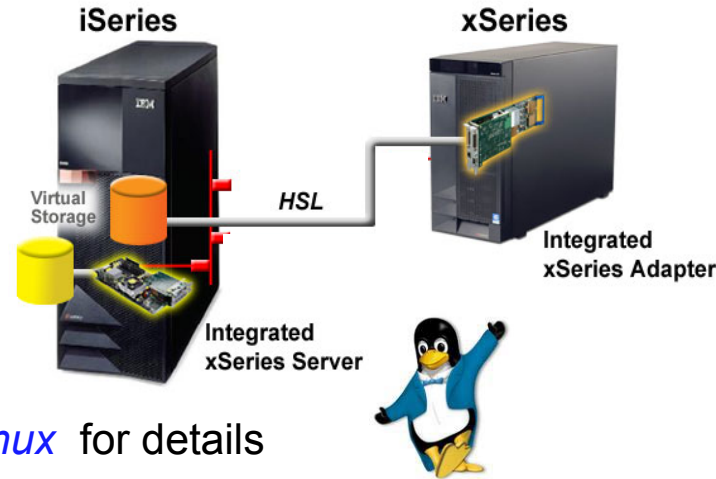
* This presentation contains information about IBM's plans and directions. Such plans are subject to change without notice.

** iSeries Models 270, 8xx, 5xx; Not Supported on iSeries Model 250

*** See www.ibm.com/eserver/iseries/windowsintegration/os_support.html for details

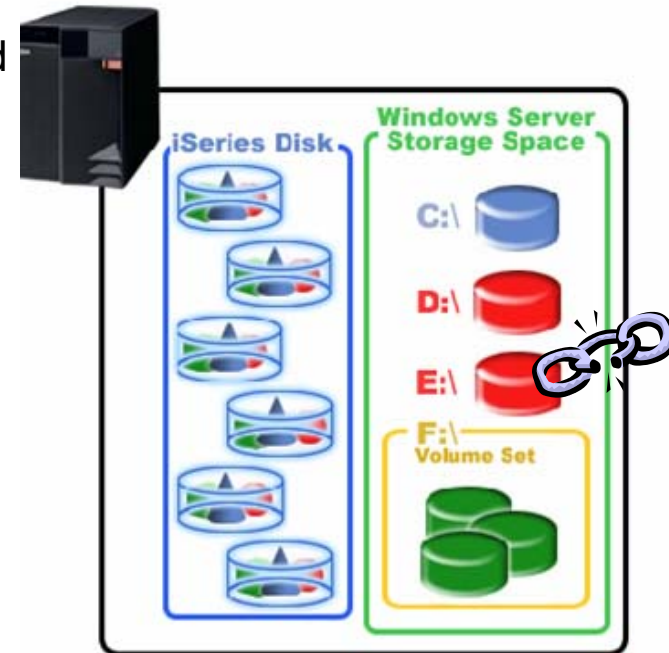
Linux on Integrated xSeries Solutions

- **Linux enabled on Integrated xSeries Solutions**
 - Red Hat Enterprise Linux 3 AS or ES on Xeon Integrated xSeries Servers (IXS) and Xeon xSeries attached via Integrated xSeries Adapter (IXA)
 - SUSE LINUX Enterprise Server 8 on Xeon xSeries attached via Integrated xSeries Adapter (IXA)
 - OS/400 V5R2 or i5/OS V5R3 PTF's required
 - See www.ibm.com/eserver/iseriess/integratedxseries/linux for details
- **Deliver support for Intel-based Linux applications**
 - Leverage iSeries virtual storage
 - Share iSeries tape, CD, DVD
 - Consolidate Windows & Linux backup
 - Note: Virtual Ethernet is not enabled at this time
- **Provide a path to Linux on POWER**
- **General Availability**
 - Starting August 31st
 - See www.ibm.com/eserver/iseriess/integratedxseries/linux for details



i5/OS V5R3 Dynamic Storage Space Unlink

- **Integrated xSeries storage spaces may be unlinked from a server without shutting down**
 - Unlinking enables Storage Space to be safely removed
 - Drive must obviously not be in use
 - Storage Space must have been Dynamically Linked
 - Not supported to remove Storage Space from a spanned volume set
- Great for removing storage added to a server temporarily and also very useful for duplicating files and doing backup to disk
 - Storage Spaces can be relinked (even to another xSeries)
- Delivered via PTF's for i5/OS V5R3
 - Enabled for Windows 2000 Server, Windows Server 2003 and will be available for Linux on IXS/IXA
- See www.ibm.com/integratedxseries/dunlink.html for more details

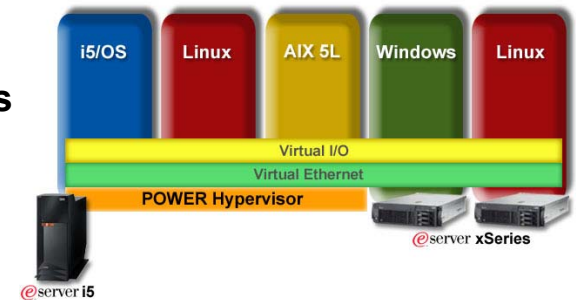


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AIX/L	DB2 OLAP Server	Enterprise Storage Server	MQSeries	Power Everywhere	S/390	zSeries
AIX 5L	DataPropagator	Hipersockets	Notes	POWER Hypervisor	ThinkPad	400
AIX 5L (logo)	Domino	IBM	OS/400	POWER6	Tivoli	i5/OS
AS/400	e business (logo)	IBM Virtualization Engine	POWER	pSeries	TotalStorage	
AS/400e	e (logo) business	IBM (logo)	POWER4	Quickplace	WebSphere	
DB2	e (logo) server	iSeries	POWER5	Rational	xSeries	

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End Of First Presentation

iSeries. mySeries.

iSeries Nation – Citizens' Chat

iSeries Print, e-delivery trends and directions

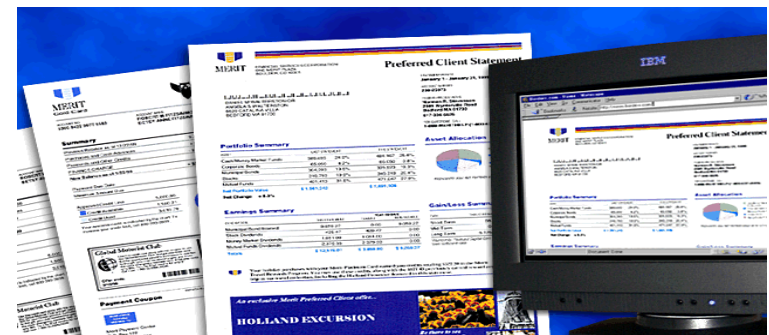
Agenda

- Define e-business communications application segment
- Typical applications
- Infoprint Server
- CA/400 Integration
- Web Access Integration
- V5R3 Enhancements
- Intro to Infoprint Designer
- Discussion, net steps



e-output, business communications

- E-business is changing face of business communications
 - Traditional information methodology has been "print and distribute"
 - Internets and intranets provide the opportunity to change this
 - Electronic documents provide the means
 - With electronic documents:
 - Tie to preprinted form is broken
 - Flexibility in content
 - Flexibility in delivery
- Transformation to profiled delivery of business output
 - E-business communications
 - E-output
 - Intelligent Routing
 - E-delivery
 - Multi-channel distribution



Application Examples

- Re-engineer documents and reports to fully electronic
- Printing consolidation
- Advanced document requirements – i.e.. Bar coding
- Electronic report distribution via e-mail or Web
- Electronic burst and bind (segmentation)
- Publish or archive iSeries output to database for Web access
- Ad hoc electronic report delivery with iSeries Access
- Profiled delivery of iSeries output – “Intelligent Routing”

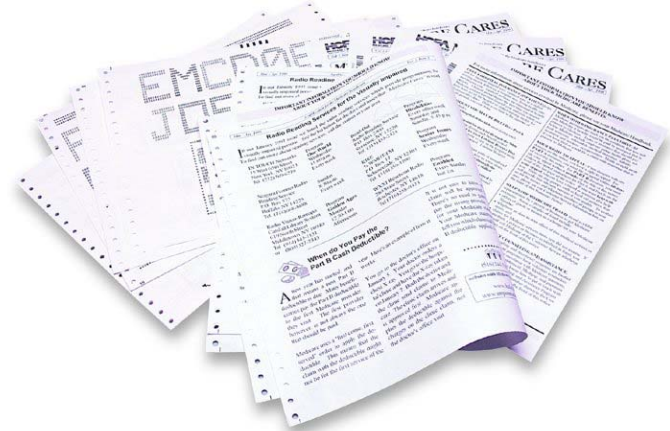
Design your business output

- **Scenario:** Your current output - statements, invoices, reports -- is inadequate.
- **Requirement** - You need to improve the content, appearance, and effectiveness of your communications and accomplish this in a productive manner without disruption.
- **Solution:** Infoprint Designer, with additional options that include DDS, DesignPro, DOC/1, and others



Ad Hoc Report Request

- **Scenario:** Month just closed. Finance manager has just called and needs to look at the month-end report.
- **Requirement:** Get the information to finance quickly and painlessly.
- **Solution:** iSeries Access and Infoprint Server.



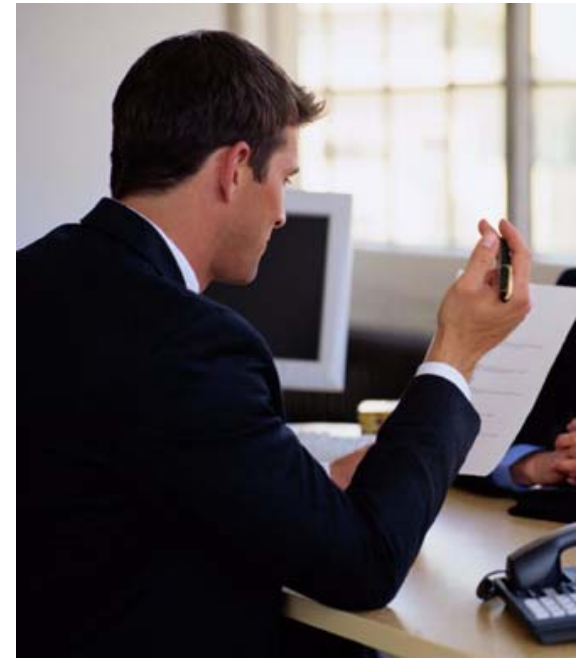
Electronic burst and bind (segmentation)

- **Scenario:** Order entry has been re-engineered to the Web. However, the back end of the order process -- the order confirmation -- is still printed and mailed in hardcopy.
- **Requirement:** Customer would like to automatically segment order confirmations, retrieve e-mail data, and send immediately to customer. . .
- **Solution:** DDS or Infoprint Server (Create AFP Data command)



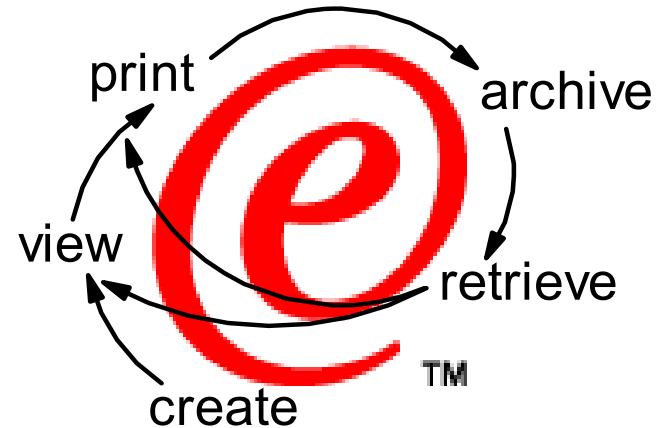
Electronic Report Distribution

- **Scenario:** monthly sales reports are printed, manually separated and mailed to regional office managers.
- **Requirement:** Customer would like to automatically distribute and send the relevant reports to specific managers via e-mail.
- **Solution:** Use segmentation in conjunction with PDF and e-mail services in Infoprint Server.



Intelligent Routing

- **Scenario:** Order entry has been re-engineered to the Web. However, the back end of the order process -- the order confirmation -- is still printed and mailed in hardcopy.
- **Requirement:** Customer would like to automatically segment order confirmations, retrieve e-mail data, and send immediately to customer.
- **Advanced Requirement:** need to define/profile users/recipients and provide multi-channel (Web, print, fax, e-mail) delivery options based on that profile.
- **Solution:** New Intelligent Routing capabilities of Infoprint Server.



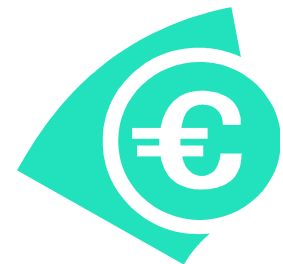
Consolidate enterprise printing

- **Scenario:** You have an ERP or network application which generates output in PCL format. You are presently printing on the network with a growing proliferation of network and personal printers. Both users and IT are dissatisfied.
- **Requirement** – You would like to consolidate this network printing, taking advantage of the speed, power and throughput of their higher-speed iSeries integrated printers -- plus AFP system management and IPDS error recovery.
- **Solution:** IBM iSeries printers, PSF, IPDS, Infoprint Server transforms



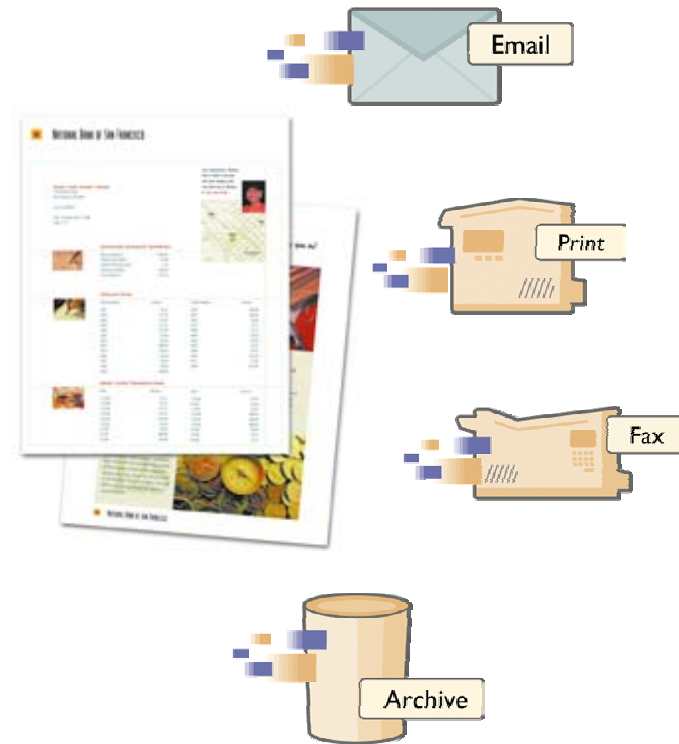
ROI for Output Reengineering

- Forms (if re-engineering)
 - Forms design expense
 - Forms costs
 - Inventory costs
 - Obsolescence costs
 - Preprinted form limitations
- Printing
 - Printing hardware, acquisition, operating
 - Labor costs
 - Incremental costs with forms
- Distribution
 - Labor costs @ \$xx/hour
 - Postage
 - Handling
 - Fax, if used
- Soft or Indirect Costs
 - Timeliness
 - Customer, end user satisfaction
 - Business flexibility, business processes
 - Competitive edge
 - Quality of business communications



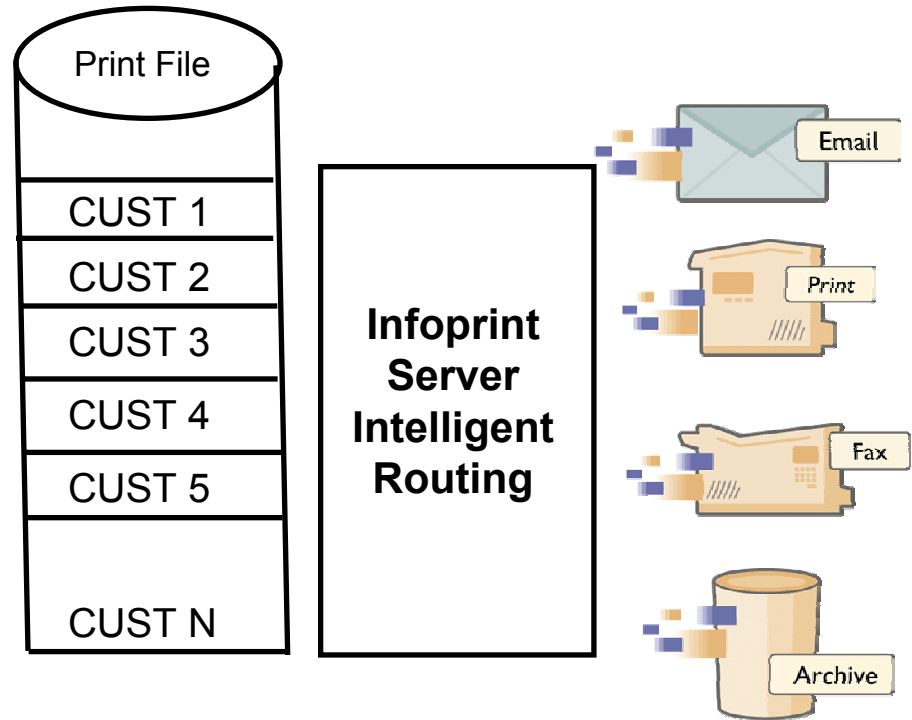
V5R3 Enhancements

- Infoprint Server intelligent routing
 - Profiled “e-distribution” of documents and reports
 - PDF enhancements include full color, encryption
- Significant i5/OS V5R3 output architecture enhancements
 - Unicode for worldwide document support
 - TrueType and OpenType for choice and compatibility
 - Full process color in i5/OS documents
 - Direct import of Web images (TIFF, JPEG)
- Print Services Facility (PSF/400)
 - Support for new iSeries output architecture elements
 - Support of new IBM iSeries printers
- Infoprint Designer
 - Support for complex documents, full color
- Refreshed and extended iSeries printer line
 - Color, workgroup, and midrange cutsheet 20-105 PPM



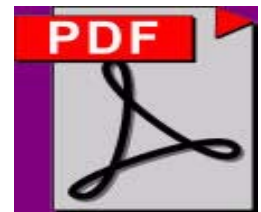
Intelligent Routing

- Profiled multi-channel delivery of iSeries business output
- Uses V5 electronic document segmentation
- Enables document action by segment, including Web, e-mail, print, fax, and re-queue
- Multiple actions per segment
- Deployment via new simple user interface (in addition to programmed and iSeries Access interfaces)



PDF Enhancements

- Access to PDF functions via new end user interface (in addition to programmed and iSeries Access interfaces)
- PDF encryption
 - Data protection with password
 - Revision protection
- PDF color
 - Conversion of new iSeries color image format (IOCA FS45)
 - Conversion of new “direct import” image (GIF, TIFF, JPEG, IOCA, GOCA, BCOCA)
- Enhanced PDF presentation and control
 - Control over PDF file name and IFS location
 - Control over orientation – i.e.. Landscape reports still “present” right-side up
- Reduction of PDF files sizes
- Support for 2D, Planet barcodes



Intelligent Routing, PDF Interfaces

- New non-programmed end user access to Infoprint Server PDF functions
 - Commands for output delivery definition
 - Data tables (PDF mapping object) defines input "target" and action operations
 - Reduces need for user exit (programming) to set up electronic distribution functions
- Now 5 interfaces to PDF, e-delivery functions
 - Printer File
 - PDF mapping object
 - User exit program
 - iSeries Access
 - API

The screenshot shows the iSeries Navigator interface. The left pane displays a tree view of 'My Connections' with 'Demo720a' expanded to show 'Printer Output'. The right pane shows a table of printer output jobs. A context menu is open over the 'Invoice' job, with 'Convert to PDF...' highlighted by a red circle.

Output name	User-specified data	User	Status	Printer	Pages per copy
Novsales	NovSales	SIMONH	Held	PRTIP40	1
Octsales	OctSales	SIMONH	Held	PRTIP40	4
Invoice	Invoice	SIMONH	Held	PRTIP40	1
Qpdsp		SIMONH	Ready	PRTIP40	4
Fusalp		SIMONH	Held	PRTIP40	3
Qpdsp		SIMONH	Printed and kept	PRTIP40	4
Fusalp		SIMONH	Printed and kept	PRTIP40	3
Qsysp		SIMONH	Printed and kept	PRTIP40	1
Qsysp		SIMONH	Printed and kept	PRTIP40	1

Convert Printer Output to PDF - Demo720a

Printer output to convert:

Name	Number	User	Job Name	Job Number
NOVSALES	3	SIMONH	QPADEV0005	136416
INVOICES	5	SIMONH	QPADEV0005	136416

After conversion:

Send as electronic mail
 Save in Integrated File System
 Save to output queue

Path:

Device for conversion:

Printer:
 PSF Configuration: Ifspdf
 Library: Qgpl
 Output queue:
 Library:



iSeries Access for WEB - PDF support



Printer Output [TORISC6.05400.MKM.CAN.IBM.COM] - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Links Address http://torisc6:2012/webaccess/iWASpool Go

IBM **iSeries Access for Web**

mira

Printer Output for mira

My Folder My Home Page Print

- Printer output
- Printers
- Internet printers
- Printer shares
- Output queues
- Messages
- Jobs
- 5250
- Database
- Files
- Command
- Customize

File Name	User Data	Creation Date/Time	Pages Per Copy	Copies	Status	Action	Preview
PM1024		8/20/02 2:46 PM	18	1	Ready	Hold Print Next Delete PDF	
PRTF1024	PRT1024	8/20/02 5:15 PM	1	1	Ready	Hold Print Next Delete PDF	
PRTF1024		8/20/02 7:10 PM	4	1	Ready	Hold Print Next Delete PDF	GIF TIFF PCL AFP View
EMINVSCS	EMINVSCS	9/5/02 8:09 AM	6	1	Ready	Hold Print Next Delete PDF	
QPDSPJOB		9/9/02 10:01 PM	7	1	Ready	Hold Print Next Delete PDF	GIF TIFF PCL AFP View
QSYSPRT		9/9/02 10:30 PM	1	1	Ready	Hold Print Next Delete PDF	GIF TIFF PCL AFP View
SAVSPLFC45		9/9/02 10:44 PM	5	1	Ready	Hold Print Next Delete PDF	GIF TIFF PCL AFP View

IBM iSeries Access for WEB - view PDF

@server®

http://torisc6:2012/webaccess/iWAPDFDownload?form-charset=iso-8859-1&devType=*IP40300&drawer1=* - Microsoft Internet Explorer

File Edit View Favorites Tools Help


Back Forward Stop Home Search Favorites Media

Links Address J&drawer1=*LETTER&drawer2=*LETTER&destType=brws&saveSplf=true&transPDF=Run&jobInfo=496648%2FMIRA%2FQPADEV000K&fileName=EMINV5CS&fileNumber=1 Go

158%

Bookmarks Thumbnails Comments Signatures

400 CPU Parkway • Vegetation, NJ 55090 • Office: 555.499.2367 • Fax: 555.415.9794

 SUPERSUNSEEDS.COM

Sold To
IMPROVED PRINTING CORP
PERFORMANCE BOULEVARD
PRINTERSVILLE
CO 45789-2637

Ship To
SAME

Invoice

Sept 5

Customer Number:	100	Invoice Number:	31300	Invoice Date:	9/05/02	Payment Date:	10/05/02
Ship Via:	BEST WAY	Shipped Date:	9/05/02	Terms:	NET 30	Salesman:	YOUR PRINTER REP

QTY	UOM	ITEM #	DESCRIPTION	PRICE	EXTENSION
1	CT	00000300	HIGH ALTITUDE WATERMELON	1.01	1.01
1	PK	01100517	SPARTAN SEEDS	2.39	2.39
9	PK	04569870	NORTHERN LITE BLUE SPRUCE	858.32	7,724.88
12	BX	11005004	BUSH GREEN SEEDS	2.50	30.00

Done Local intranet

Start Address 3:39 PM

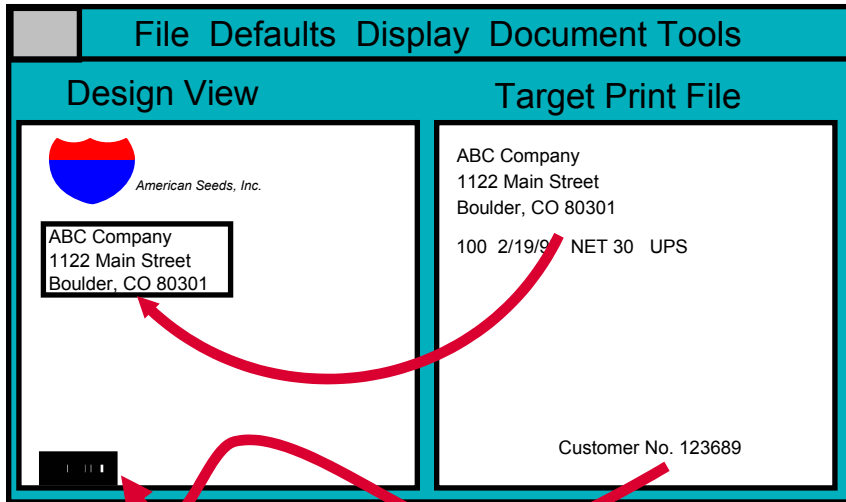
S... iS... 1... Wind... iS... C... A... S... S... K... cl... iS... j... F... h...

iSeries Output Architecture Extensions

- Unicode
 - Worldwide document encoding standard – “ultimate code page”
- TrueType, OpenType
 - Direct import and use of TTF and OpenType fonts in iSeries output
 - Fonts reside in ASCII on Integrated File System (IFS)
 - Font installer (feature of Infoprint Fonts, 5648-E77) for installation
- Color
 - iSeries color image – IOCA FS 45
 - Base support in V5R2, extended in V5R3
 - Direct import of ASCII image – monochrome and color
 - JPEG, EPS, PDF, PCL, TIFF, IOCA, GOCA files



Infoprint Designer



Product Summary

State of the art design front-end to the robust, integrated AFP/IPDS print/presentation subsystem on iSeries-AS/400, geared for the non-technical user

Key Features

- **Overlay Design** editor for designing electronic forms
- **Image Design** editor for designing images
- **Layout Design** editor for designing the entire print application
- Creates standard OS/400 print resources
- Integrated for design
- Integrated for production
- Professional, high-precision system geared to the demands of business
- Output redesign without application changes
- AFP Font Collection fonts built in
- Product ID 5733-ID1
- OS/400 V4R5 required

Design Interface

Infoprint Designer - Layout editor - Sample.Pfa - Sample,COPY1 / Sample,PAGE1 (3)

File Edit View Tool Defaults Window Help

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Layout SAMPLE INVOICE New overlay

Data Window

Record(s): Field:

0 0.5 1 1.5 2 2.5 3 3.5 4 4.5 5 5.5

0 0 5 1 1 5 2 2 5 3 3 5 4

400 CPU Parkway * Vegetation, NJ 55090 * Office: 555.499.2367

SUPERSUNSEEDS.COM

Sold To

Sh

Customer Number: Invoice Number: Invoice Date:

Ship Via: Shipped Date: Terms:

QTY	UOM	ITEM #	ITEM DESCRIPTION
1	CT	00000300	HIGH ALTITUDE WATERMELON
1	PK	01100517	SPARTAN SEEDS
9	PK	04569870	NORTHERN LITE BLUE SPRUCE
12	BX	11005004	BUSH GREEN SEEDS
12	CT	11005011	LASSO RED SEEDS
26	PK	11005018	EARLY BANTAM SEEDS
5	BX	11057893	ALICE DAISY SEEDS
1	PK	15975365	LIGHT OAK - JULIET
33	BX	32746510	HOPS BREWING LIGHT

5* 10* 15* 20* 25* 30* 35* 40* 45* 50* 55* 60* 65* 70*

100 31300 3/11/01 4/11/

BEST WAY 3/11/01 NET 30 LUCY IRI

858.32 7

2.50

892.23 10

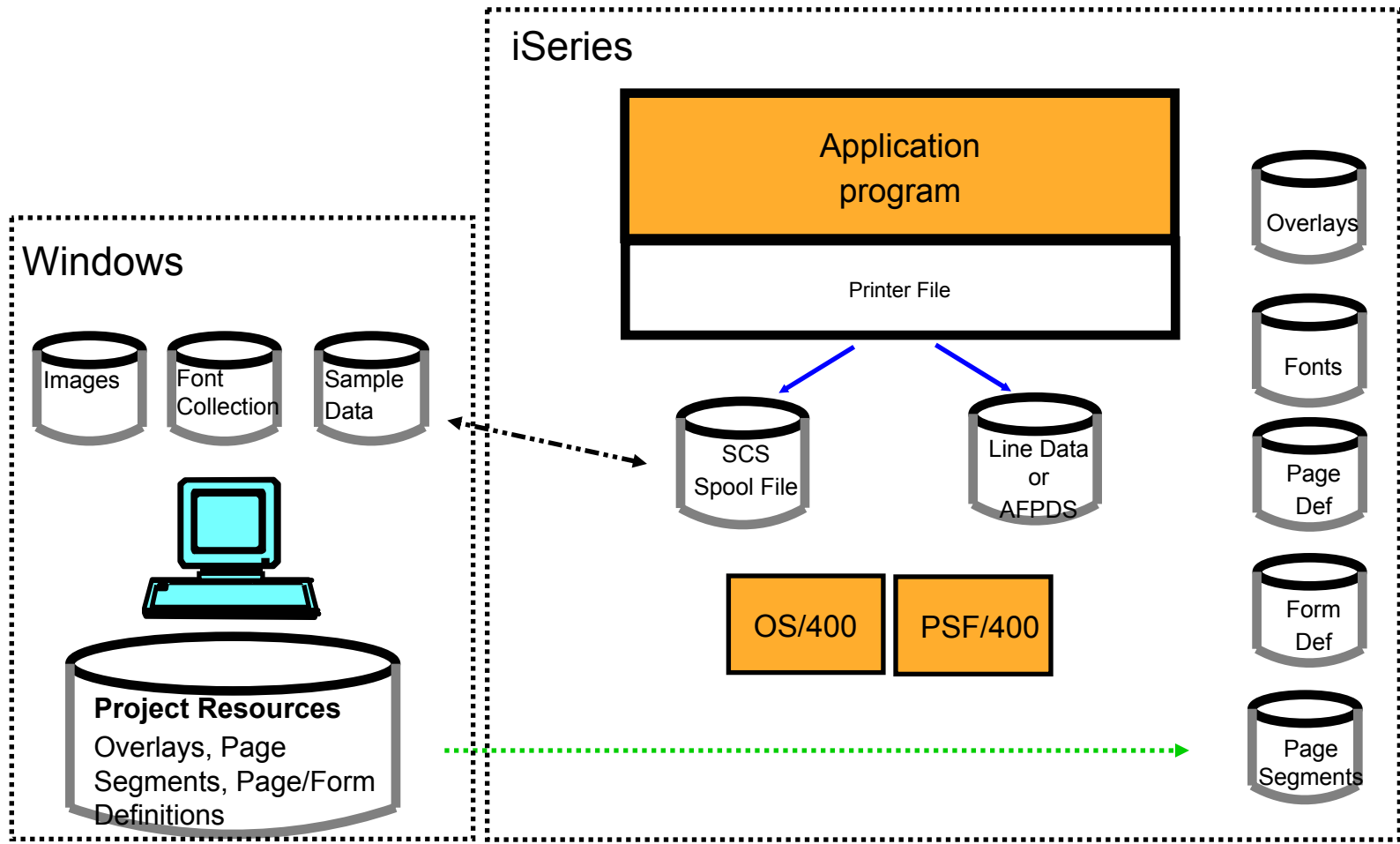
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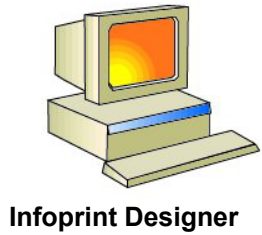
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1.20

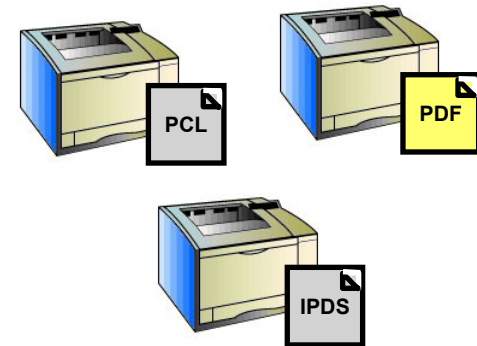
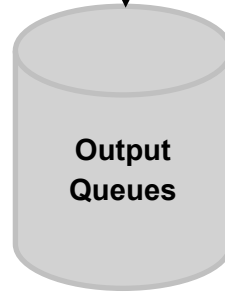
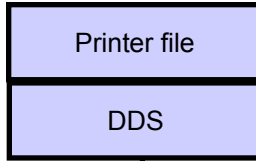
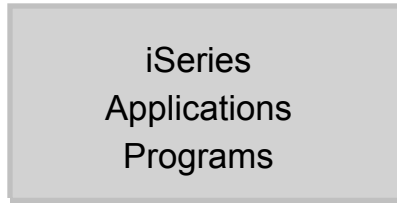
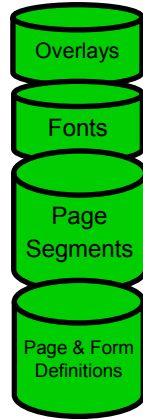
Infoprint Designer Schematic





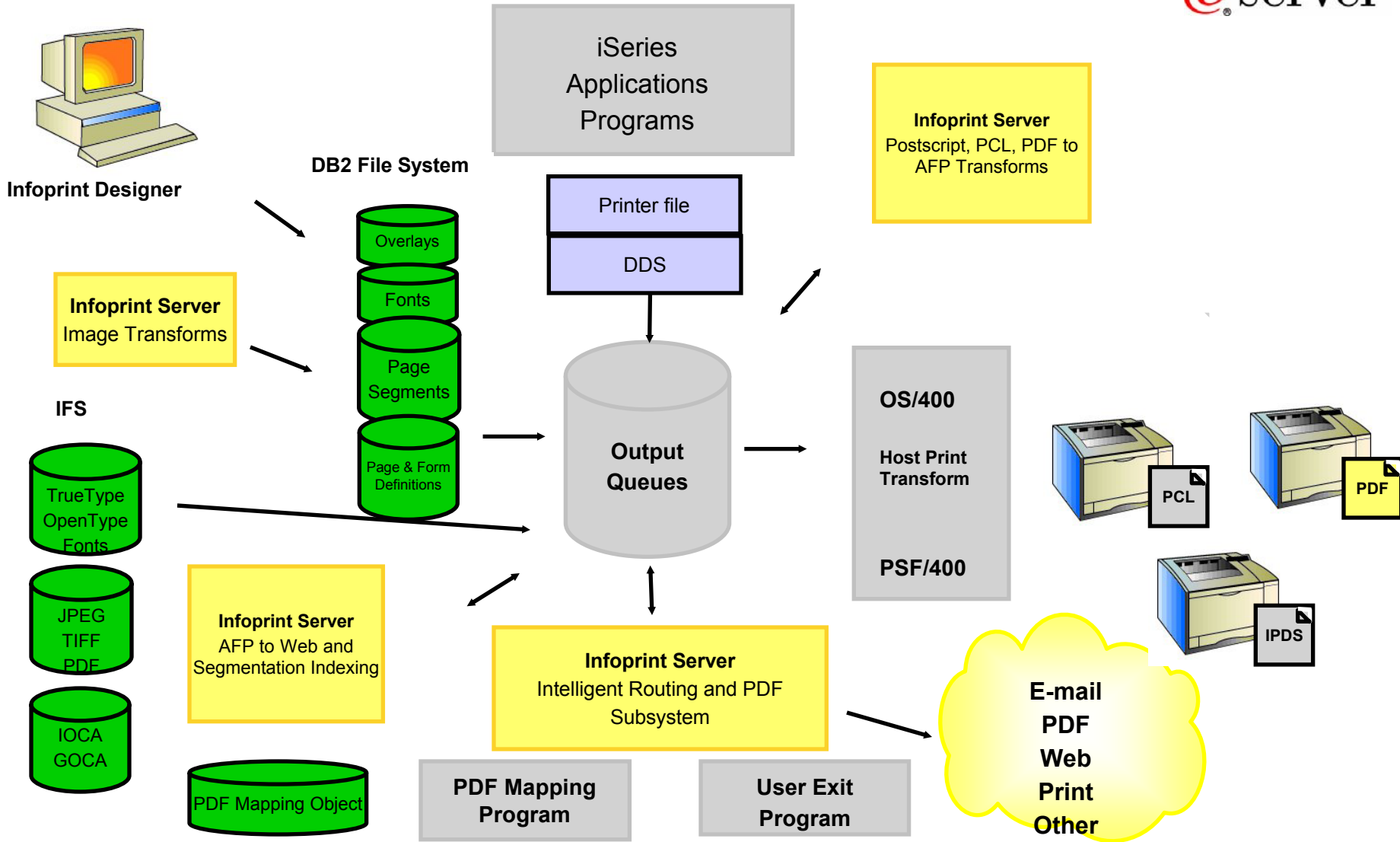
Infoprint Designer

DB2 File System





Additional Slides





Infoprint Server for iSeries

iSeries support for PDF

- Transform services for any iSeries standard output (AFP, IPDS, SCS, even OV/400)
- PDF output to e-mail, IFS, or PDF printer
- High-function PDF Server
- Segmentation - "Electronic Burst and Bind"

Intelligent Routing, Electronic Delivery

- PDF output can be automatically e-mailed, archived, printed
- Multiple actions per file or file segment
- Implementation via PDF mapping or user exit

iSeries as a network print server

- PCL, Postscript, and PDF to AFP
- Postscript and PDF transform is IBM-Adobe full-function Level 3

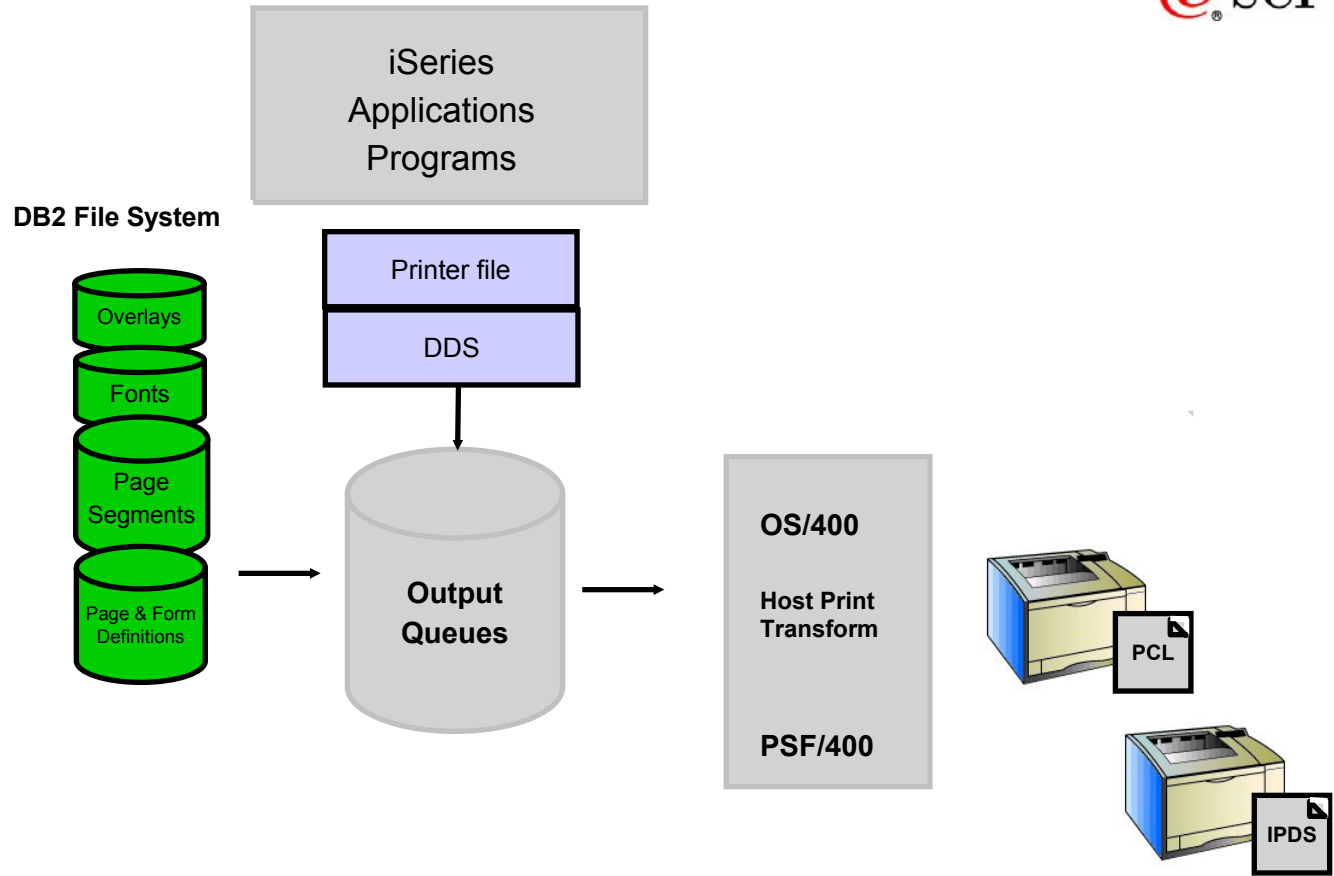
Portable, web-ready AFP

- Add external resources to AFP data for portability and browser view
- Add indexing for navigation and report segmentation

Image transforms

- GIF, TIFF, and JPEG transforms to IOCA
- Windows-based





iSeries Printing Flow



