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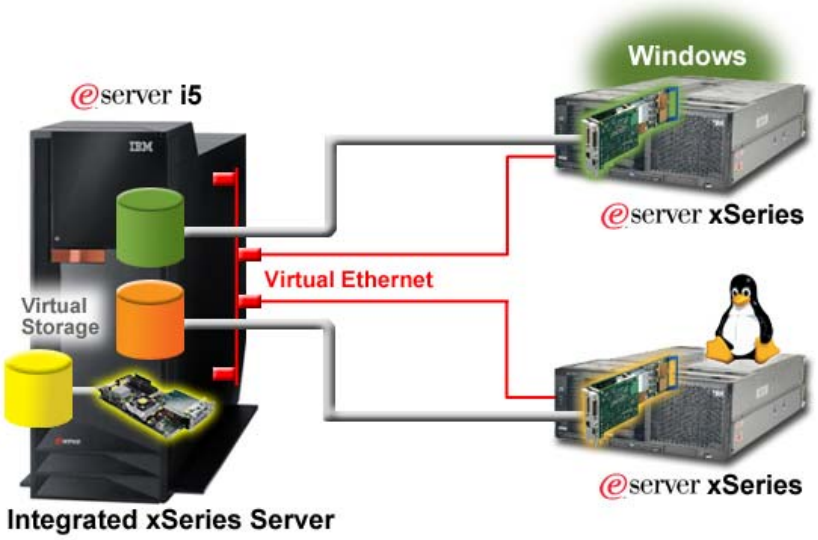
Integrated xSeries Solutions Update

George Gaylord
WW Product Marketing Manager,
Integrated xSeries Solutions for iSeries

Integrated xSeries Solutions

- **Simplify your Infrastructure**
  - Consolidate aging Intel servers
  - Integrate OS/400, Windows & Linux application & infrastructure
- **Optimize your Investments**
  - Exploit i5/OS Virtual Storage
  - Communicate between Windows, Linux and i5/OS applications utilizing Virtual Ethernet
  - Integrate i5/OS and Windows backup
  - Leverage Resources, Skills and Best Practices
- **Offerings**
  - Integrated xSeries Server
  - xSeries attached via Integrated xSeries Adapter



Integrated xSeries Server

- **Low-voltage, 2.0 Ghz Xeon Processor**
  - Up to 4 GB Memory
- **Integrated 10/100 Mbps Ethernet Adapter**
- **Leverages iSeries resources**
  - Virtual disk storage - up to 31 TB on i5/OS
  - Virtual 1 Gbps Ethernet connections
  - Shared Tape, DVD and CD-ROM
- **Supported on iSeries Models****
  - OS/400 V5R2 or i5/OS V5R3

- **Runs Windows®**
  - Windows Server 2003 Standard, Enterprise & Web Editions
  - Windows 2000 Server & Windows 2000 Advanced Server
- **Runs Linux**
  - RedHat Enterprise Release 3 AS or ES

Integrated operations and server management

** iSeries 270, 8xx; Not supported on iSeries Model 250

Preview* : New! Integrated xSeries Server

- **Low-power Intel® Pentium® M Processor**
  - Includes 1 GB base memory
  - Integrated dual port 1 Gb Ethernet
- **Supported on eServer i5 & selected iSeries Models****
  - Ideal for CEC of 520, 550, 570
  - i5/OS V5R3 required
- **Runs Windows & Linux**

  - See *www.ibm.com/eserver/iseries/integratedxseries* for details

*Planned availability 2H, 2004 This presentation contains information about IBM's plans and directions. Such plans are subject to change without notice.

**iSeries Models 800, 810, 825, 870, 890

Integrated xSeries Adapter (1519-200)

- **Announced August 2, 2004**
- **Extends IXA support to new IBM eServer x346 with X tended Design Architecture**
  - Rack-optimized 2U footprint
  - Up to 3.6 GHz Xeon, 1-2 way

- **Also supports new x236**
  - Tower, up to 3.6 GHz Xeon 1-2 way
  - x236 Planned Availability : October 13th *

- **Does not replace 1519-100 for xSeries x365 (1-4w) or x445 (1-8w)**
- **Supported on eServer i5 and iSeries****
  - OS/400 V5R2 or later
  - Runs Windows 2000 Server, Windows Server 2003 and Linux
- **See *ibm.com/eserver/iseries/windowsintegration/xseriesmodels* for more details**

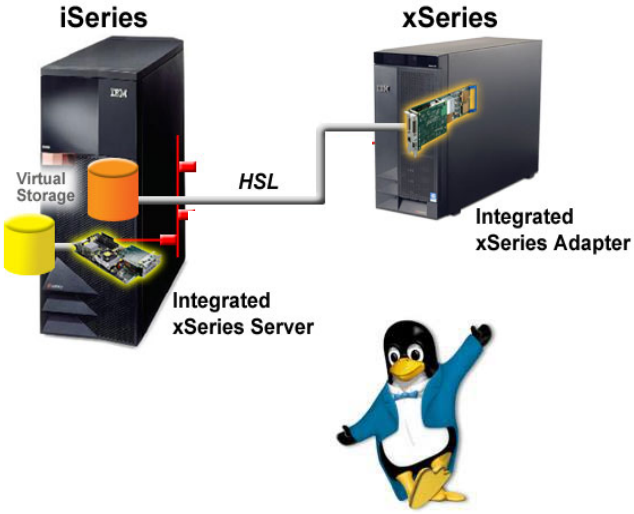
* This presentation contains information about IBM's plans and directions. Such plans are subject to change without notice.

** 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
    - Xeon Integrated xSeries Servers (IXS)
    - Xeon xSeries attached via Integrated xSeries Adapter (IXA)
  - SUSE LINUX Enterprise Server 8
    - Xeon xSeries attached via Integrated xSeries Adapter (IXA)
  - OS/400 V5R2 or i5/OS V5R3 PTF's required
- **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**
- **See** *www.ibm.com/eserver/iseries/integratedxseries/linux* **for details**



*Planned availability 3Q, 2004 This presentation contains information about IBM's plans and directions. Such plans are subject to change without notice.

Integrated xSeries Solution Examples*

Workload Description	Small Processor, Memory	Medium Processor, Memory	Large Processor, Memory
File Serving	IXS x346 1w, 1 GB	x346 2w, 2 GB	x365 4w, 4 GB
SQL Server	x346 2w, 2 GB	x365 2w, 2 GB	x365 4w, 4 GB x445 4w, 4 GB
Exchange	IXS x346 1w, 1 GB	x365 2w, 2 GB	x365 4w, 4 GB x445 4w, 4 GB
Internet infrastructure – DNS/DHCP, Active Directory	IXS x346 1w, 1 GB	IXS x346 1w, 1 GB	IXS x346 2w, 2 GB
Web Server	x346 2w, 2GB	x346 2w, 2GB	x365 4w, 4 GB x445 4w, 4 GB
Application Server	x346 1w, 1 GB x236 1w, 1 GB	x346 2w, 2 GB	x365 4w, 4 GB x445 4w, 4 GB
Citrix Metaframe	IXS x346 1w, 1 GB	x346 2w, 2 GB	x365 2w, 2 GB

*Examples are shown for illustrative purposes only. Individual Customer performance may vary.

Integrated xSeries Solution Benefits

- **Simplify Your Infrastructure**
  - Virtualize Intel server storage
  - Virtualize server-to-server networking
- **Integrate to Innovate**
  - Integrate server management
  - Consolidate user administration & backup
- **Deliver Without Disruption**
  - Consistent set of drivers
  - Flexibility for Test & Development
  - Affordable availability options

Umbro International Limited

- **The Challenge**
  - Create resilient environment for applications and data
  - Reduce points of control in the IT architecture
- **The Solution**
  - iSeries Model 820 and a 270 for disaster recovery
  - (2) xSeries attached to the i820 via Integrated xSeries Adapters
    - Graphic conversion of high-resolution images to Web-ready images for a business-to-business application
    - File and print services for 50-strong design team
- **The Benefits**
  - Single point of control for vital enterprise data
  - Reduced network traffic and consolidated backup
  - Fast failover capability helps ensure business continuity in the event of server downtime

www.umbro.com

"…the iSeries acts as a storage area network for our Windows systems, reducing management costs and providing business security that would otherwise be beyond our reach."

-- Danny Healey, IT Director, Umbro

iSeries. mySeries.

The Alpura Group, Mexico

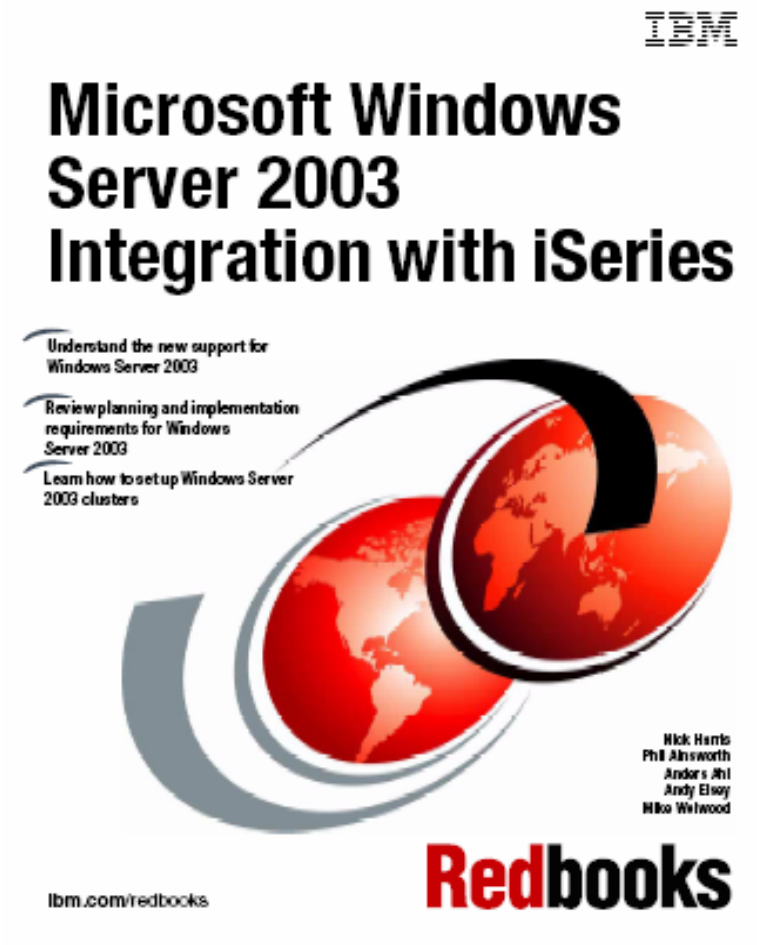
- Mexico's leading milk producer
  - Represent 160 dairy farms across the country
    - 82,000 cows, 2 million liters per day
  - Package and deliver dairy products to supermarkets
- Deployed a High Availability solution provided by Dedomena, S.A. de C.V., a Lakeview Technology partner, to support their OS/400 and Windows applications
  - MIMIX ha1™ and MIMIX for Windows®
  - iSeries Model 820, (3) IXS, (3) xSeries & IXA
  - Hosted in IBM Business Recovery Center
- Real-time replication provides failover and disaster recovery support both for iSeries and xSeries servers supporting critical business applications
- Estimated savings of over $10,000 per day

www.mimix.com/pdf/alpura.pdf

MIMIX®
The Power of Information Availability™

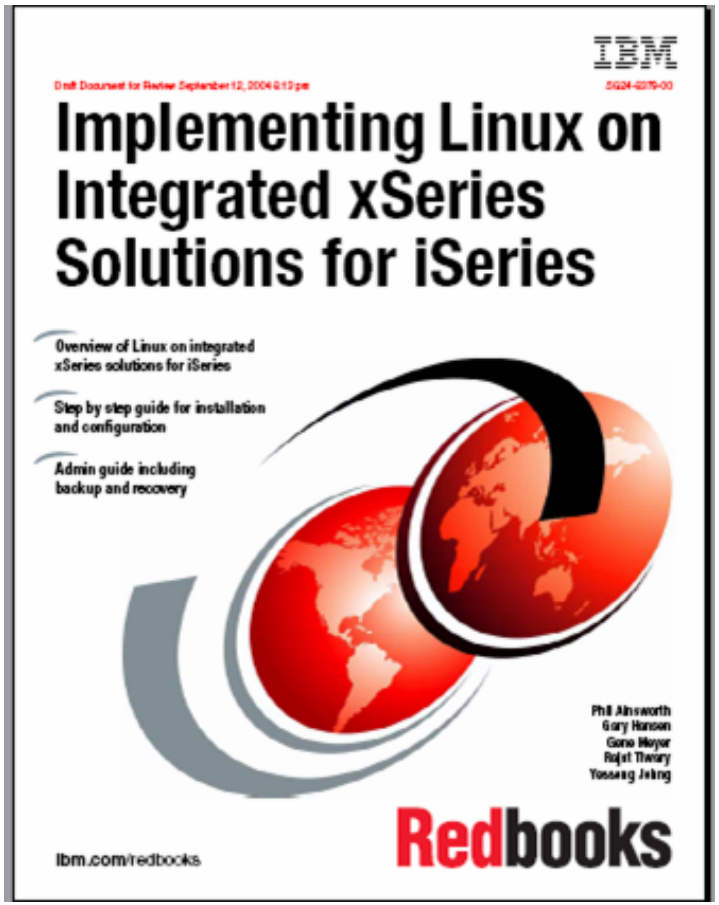
Integrated xSeries Solutions Redbook

- SG24-6959
- Available at *redbooks.ibm.com*
- Includes:
  - Chapter 1. Overview
  - Chapter 2. Planning
  - Chapter 3. Installation
  - Chapter 4. Operating Integrated xSeries Servers
  - Chapter 5. Disk Management
  - Chapter 6. User enrollment
  - Chapter 7. Backup and recovery
  - Chapter 8. Software maintenance
  - Chapter 9. HSL design considerations
  - Chapter 10. Terminal Services and Citrix MetaFrame
  - Chapter 11. xSeries clusters
  - Chapter 12. IXS and IXA migration
  - Chapter 13. iSeries NetServer
  - Appendix A. Save and restore performance tests
  - Appendix B. Active Directory
  - Appendix C. Cluster scripts.



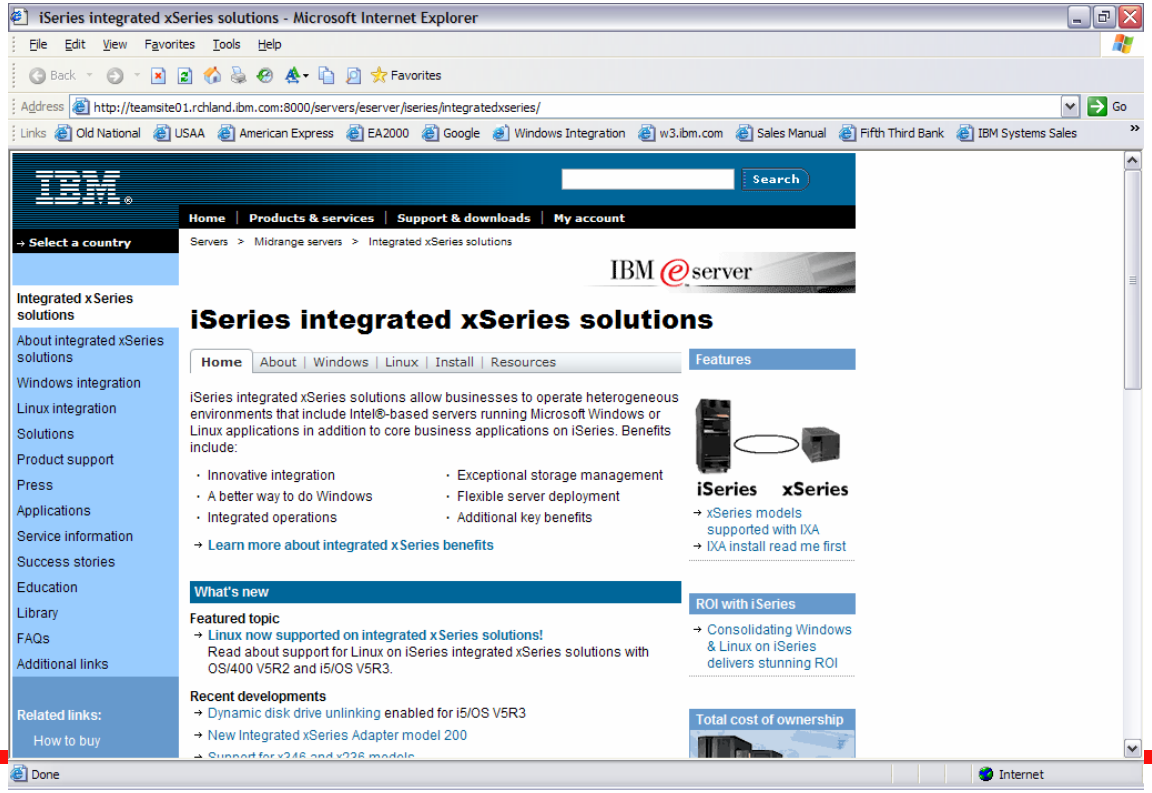
Linux on Integrated xSeries Solutions Redbook

- SG24-6379
- Available at *redbooks.ibm.com*
- Includes :
  - Chapter 1. Introduction to iSeries Integration for Linux Server
  - Chapter 2. Planning
  - Chapter 3. Installation and Configuration
  - Chapter 4. OS/400 Operations
  - Chapter 5. Linux System Administration
  - Chapter 6. Backup and recovery
  - Appendix A. Concurrent xSeries maintenance



www.ibm.com/eserver/iseries/**integratedxseries**

- New, updated solution site for IXS/IXA
  - Details for Windows: ibm.com/eserver/iseries/integratedxseries/**windows**
  - Details for Linux : ibm.com/eserver/iseries/integratedxseries/**linux**



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