



IBM System i5

# Getting Started with SOA on System i5

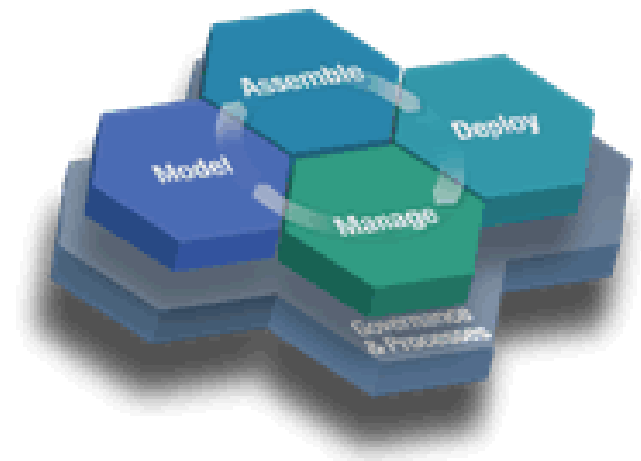
## Advantages of System i5

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*Simplify your IT.*

# Agenda

- Collaboration overview
- IBM WebSphere Portal Server for System i5
- IBM Workplace products for System i5
  - Workplace Collaboration Services
  - Workplace Services Express
- System i5 unique capabilities & value add
- Summary & additional resources



## System i5 (iSeries) - The myths

- ✓ Old technology
- ✓ Proprietary
- ✓ Expensive
- ✓ Nothing but Green Screens
- ✓ Not strategic to IBM
- ✓ Slowly fading away
- ✓ All the iSeries people are at least 50 years old



## System i5 (iSeries) - The Reality

- ✓ Industry Leading Technology
- ✓ The most open system on the planet
- ✓ Provides the lowest total cost of ownership of any server
- ✓ Runs everything from green screen applications to SOA
- ✓ In Feb 2005, IBM made a \$1B commitment to driving the iSeries forward
- ✓ Adding new customers and ISVs every year
- ✓ Industry leading customer and Business Partner satisfaction
- ✓ Not all of us are over 50.....



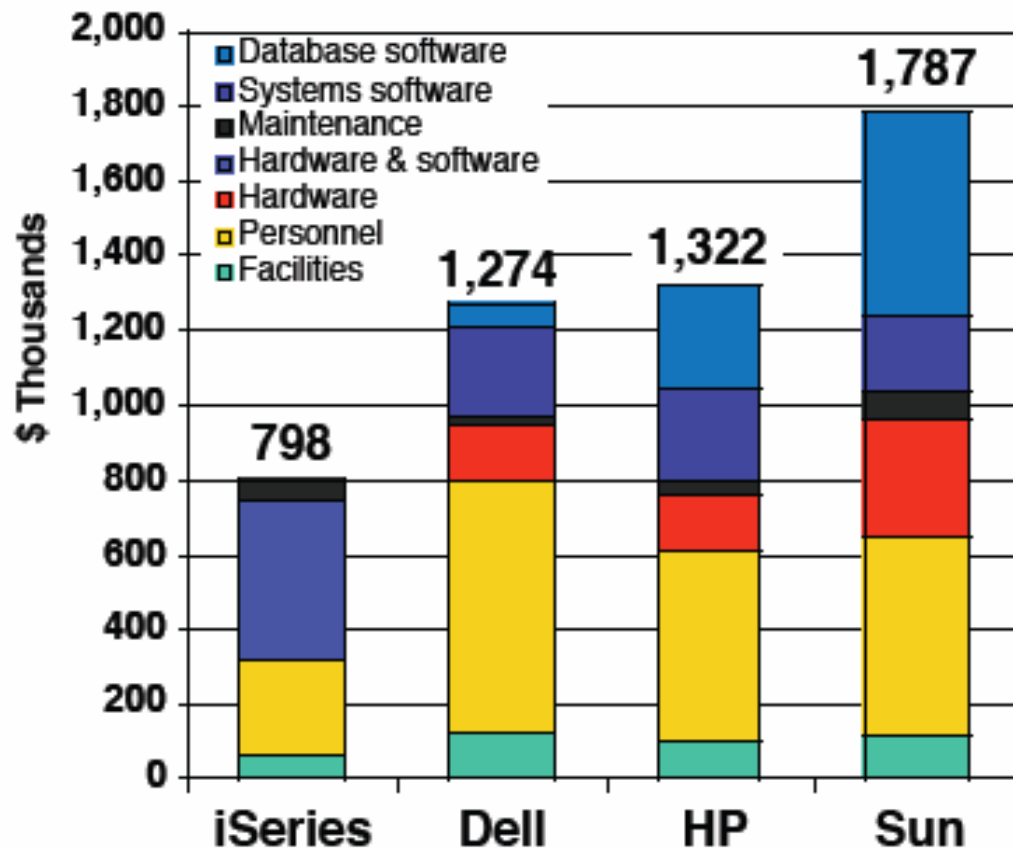
## System i5 (iSeries) - The Reality

- ✓ Over 245,000 customers currently use more than 500,000 System i5, iSeries or AS/400 systems in over 100 countries world wide
- ✓ 99% of Fortune 100 companies utilize System i5, iSeries or AS/400 servers
- ✓ 94% of Fortune 500 companies use System i5, iSeries or AS/400 servers
- ✓ 7 out of 10 IBM customers have a System i5, iSeries or AS/400 server
- ✓ Over 13,000 System i5, iSeries or AS/400 systems in the healthcare industry



# Server Cost of Ownership - Over 3-Years

## JD Edwards EnterpriseOne



iSeries is

- 37.8% less than Dell
- 39.7% less than HP
- 55.3% less than Sun

Why?

- Availability
- System performance
- Reduction in complexity
- Increase focus of IT resources on business demands

Source: ITG Status Report, June 2005

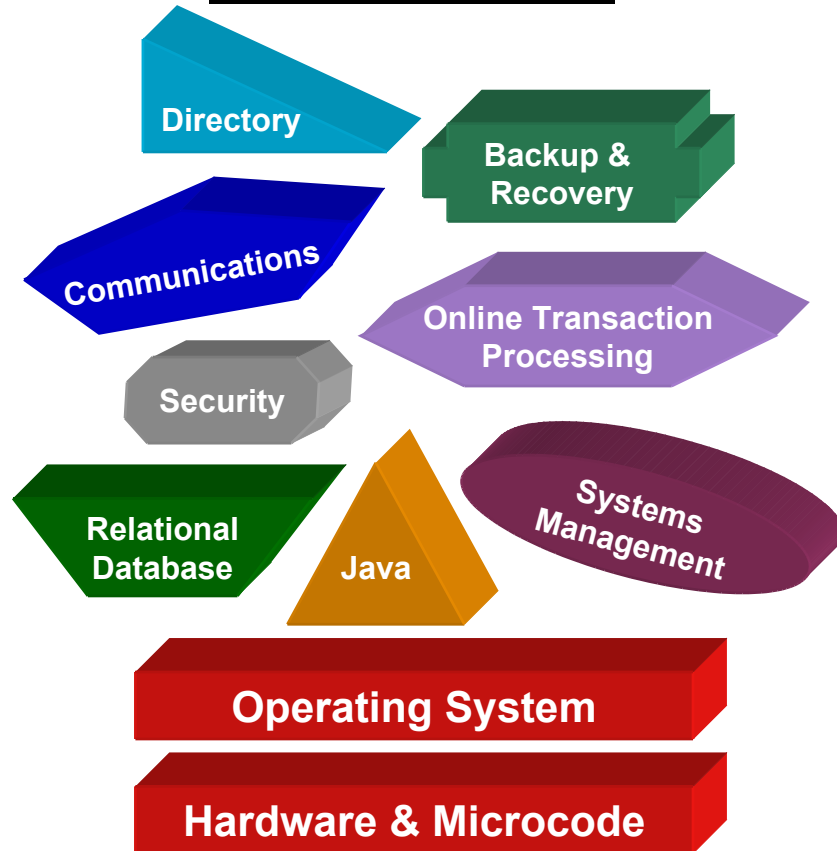
Cost/Benefit Case for IBM eServer i5 Servers: JD Edwards EnterpriseOne Solutions

## Why do clients buy i?

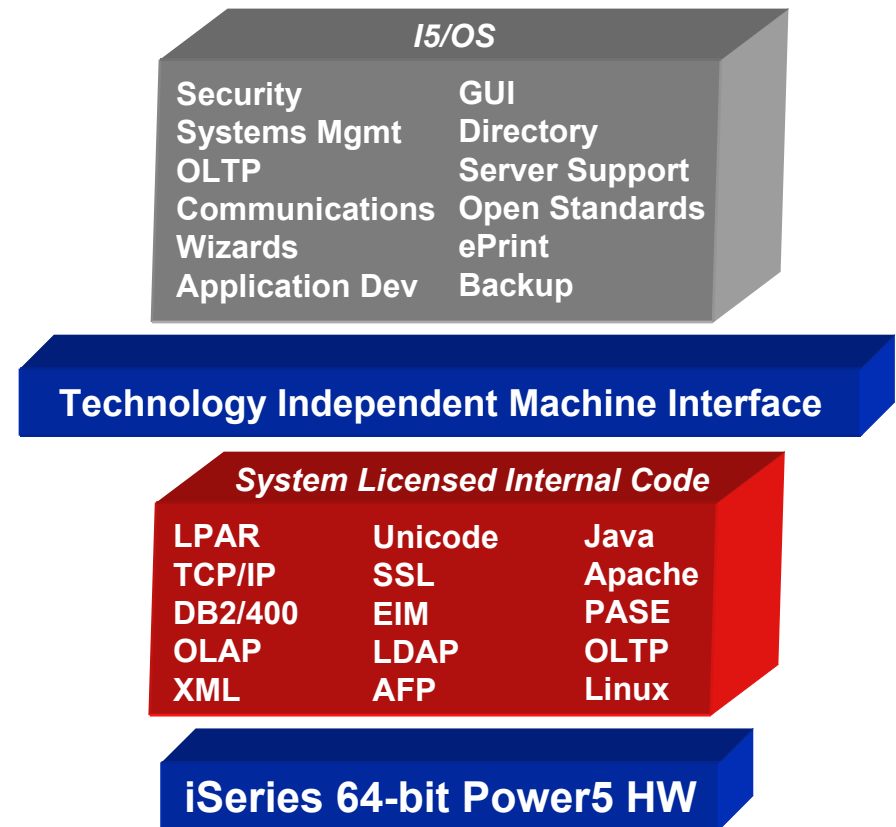
- ✓ Because there's real value in integration
- ✓ Because reliability is a feature, not an option
- ✓ Because it supports mixed workloads on a single server, with stability, at high levels of system utilization
- ✓ Because it practically manages itself
- ✓ Because it's more secure by design, providing natural defenses against viruses and the vulnerabilities which they attempt to exploit
- ✓ Investment protection of IT assets

# System i5 & iSeries – integrated by design

## Traditional Systems

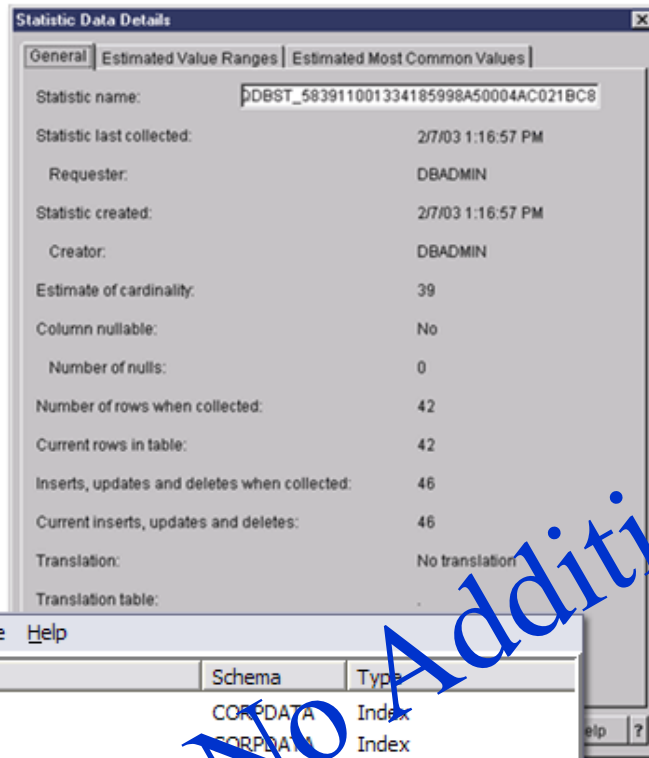


## iSeries





# DB2® UDB for iSeries



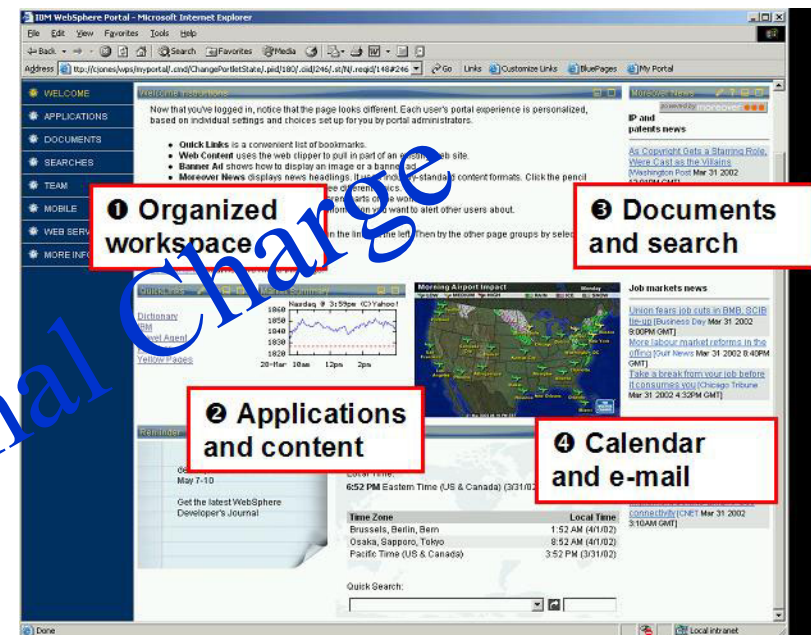
- Deliver enhanced functionality with improved performance and ease of use for data warehouse and queries
  - Star Join Recognition
  - Result set caching for re-run of same queries
  - Preview Materialized Query Table
- Extend development interfaces
  - Enhance SQL standards leadership and DB2 family compatibility
  - Support Rational XDE Modeler
  - Deliver Unicode enhancements
  - Enable .NET Managed Provider
- Scalability and performance enhancements with i5/OS V5R4

# Integration yields automation

Typical DBA Tasks	DB2 UDB for iSeries
Manage DASD Space Allocation	Automated
Review Table Space Allocations & Extents	Automated
Review & Balance Indexes	Automated
Application Rebinding	Automated
Maintain Database Integrity	Automated
Update Database Statistics	Automated
Synchronized OS & DB User Security	Automated
Reload Data for Hardware & Software Upgrades	Automated
Load Data into Data Base	Parallel Data Import/Export
Build and Manage DB Backup & Recovery	iSeries Navigator
Create & Review Indexes for Tables	iSeries Navigator
Performance Analysis & Tuning (DB & System)	iSeries Navigator
Create and Maintain DB Schema	iSeries Navigator & 3rd Party Tools (ERwin, PowerDesigner)
Automated DB Performance Profiling	DBA Essentials
Advanced DB Performance Analysis & Tuning	iSeries Navigator DB Essentials
Data Replication & Consolidation	Multiple IBM & 3rd Party Products

# WebSphere Application Server

- **WebSphere Express ships with i5/OS at no charge**
- **WebSphere Express tightly integrated with i5/OS V5R3**
  - Includes new IBM Survey application, in addition to IBM Telephone Directory
  - Now available with every @server i5 and upgrade to i5/OS V5R3
  - IBM Web administration for iSeries simplifies configuration and management

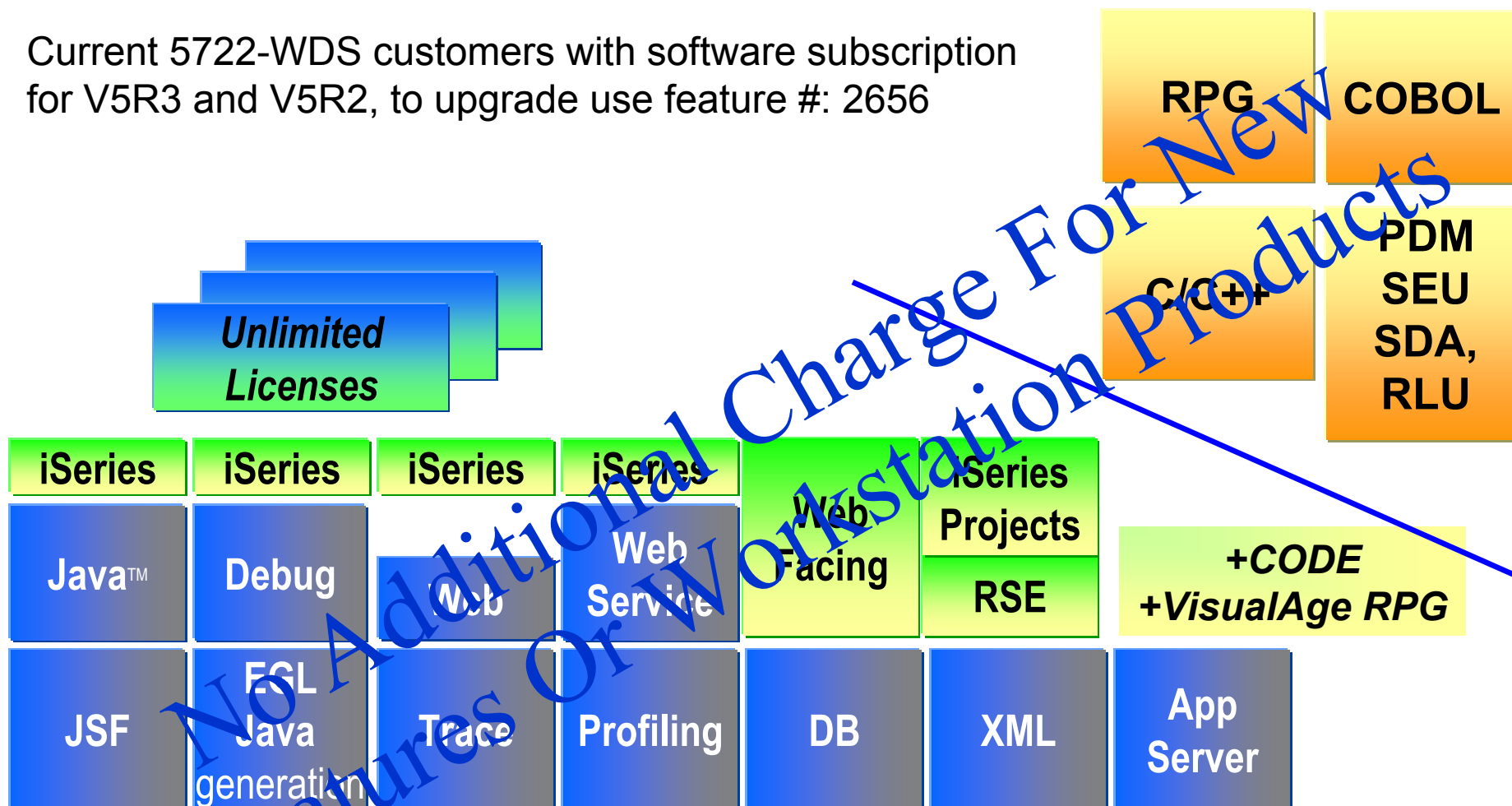


**WebSphere** software

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

# WebSphere Development Studio

Current 5722-WDS customers with software subscription for V5R3 and V5R2, to upgrade use feature #: 2656

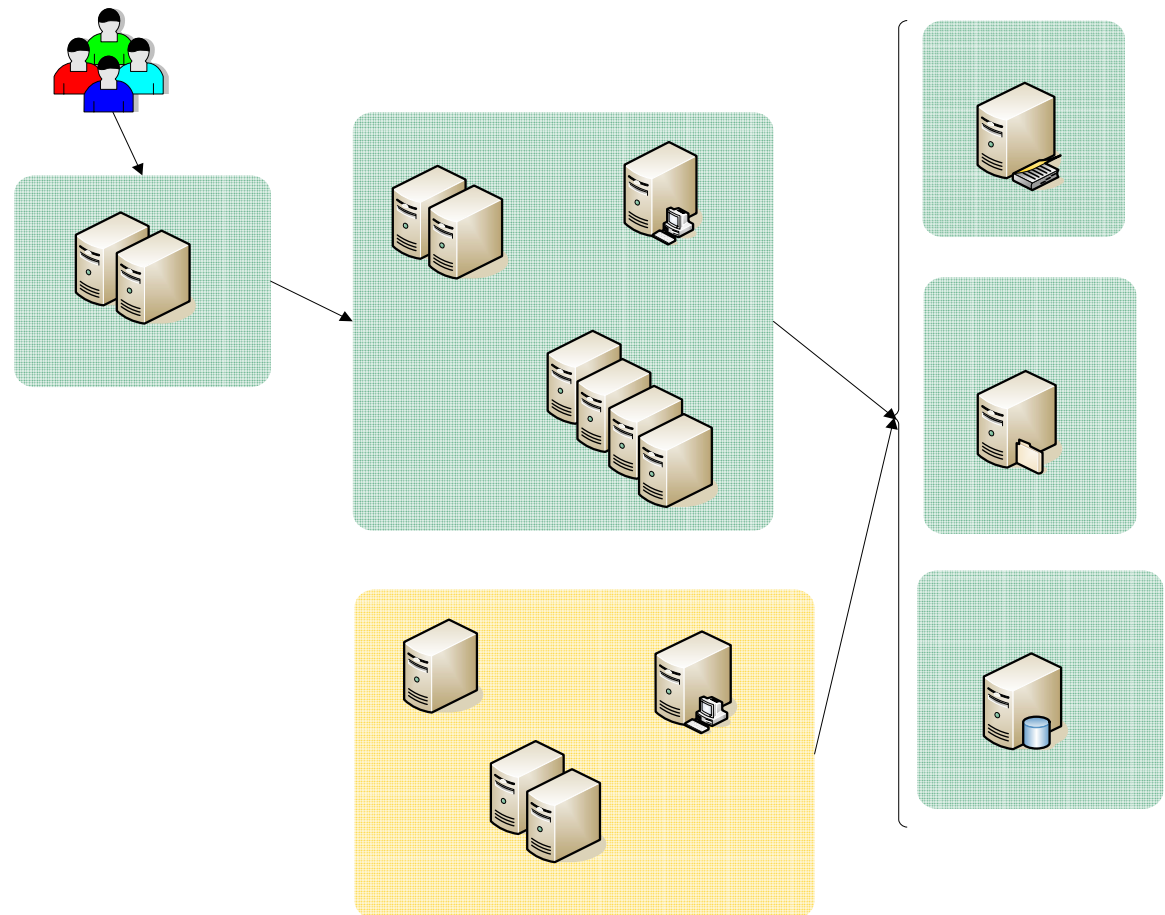


WebSphere Development Studio Client V6.01

[www.ibm.com/software/awdtools/iseries](http://www.ibm.com/software/awdtools/iseries)

# Typical Workplace Deployment without iSeries

- Minimum 3 Servers or Logical Partitions
- 3 – 2-4 way servers
- Multiple Software Stacks to Maintain
- 1) Workplace Server
- 2) DB2 Server
- 3) Directory Server
- 4) HTTP Server
- 5) LDAP Server

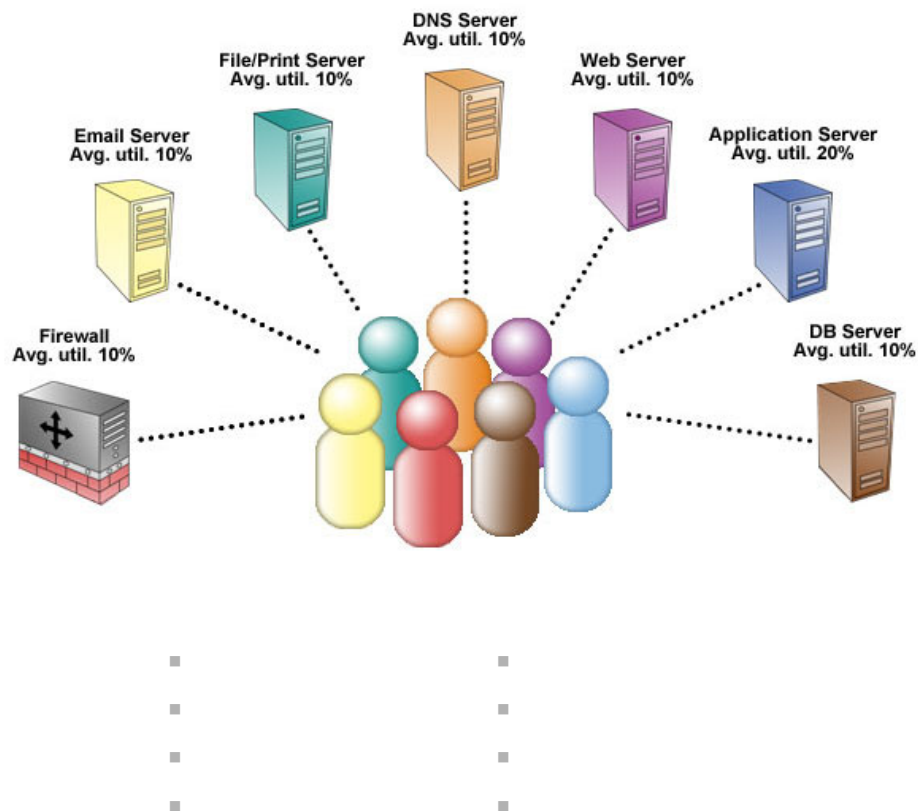




# Integration yields simplicity

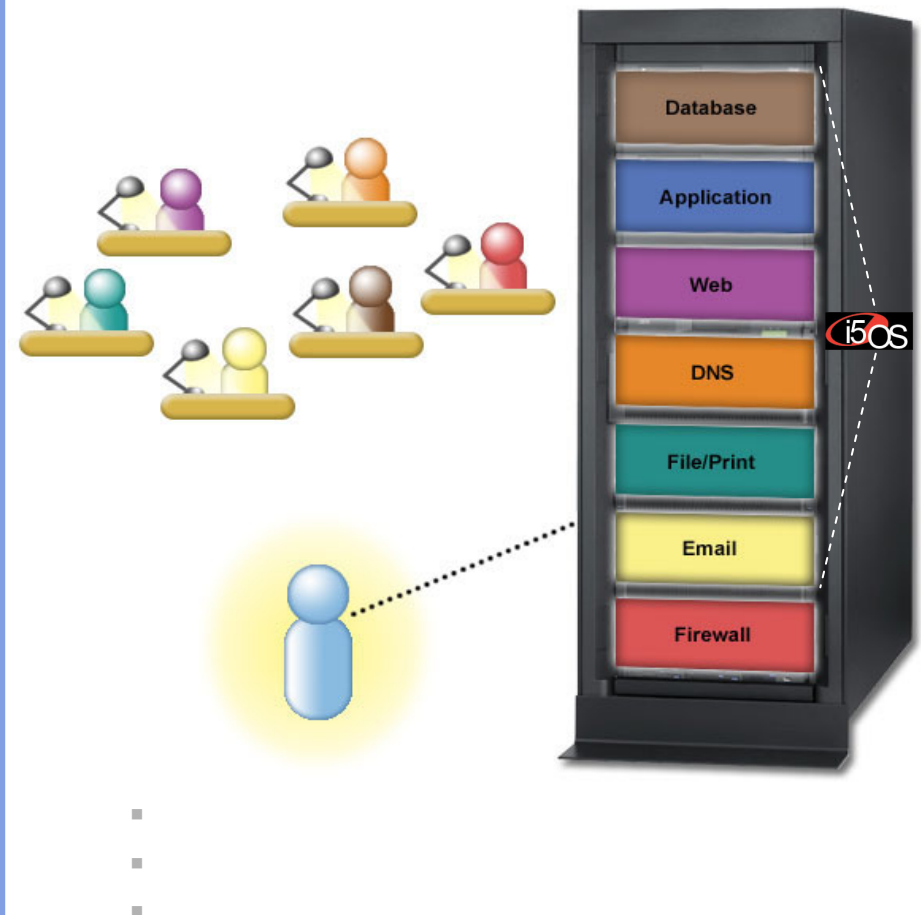
## PC Servers:

Multiple workloads, multiple servers



## iSeries:

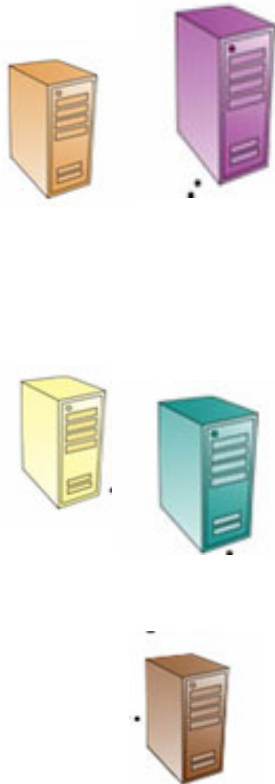
Multiple workloads, one server



# Integration and Simplicity holds true for Workplace

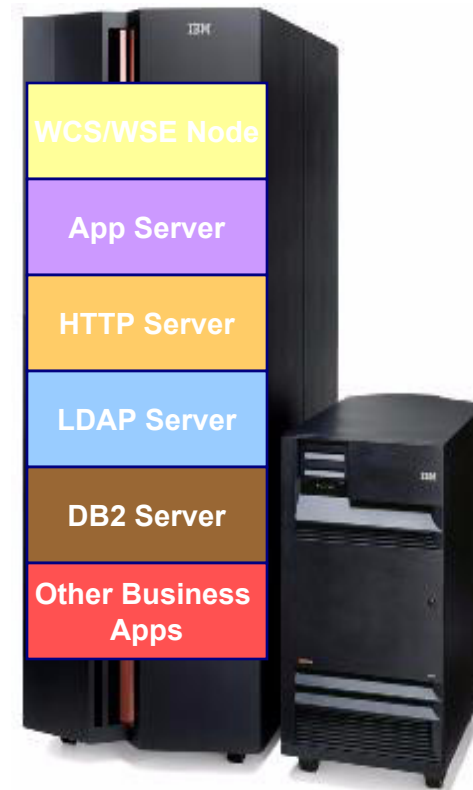
## PC Servers:

Expanding workloads, multiple servers

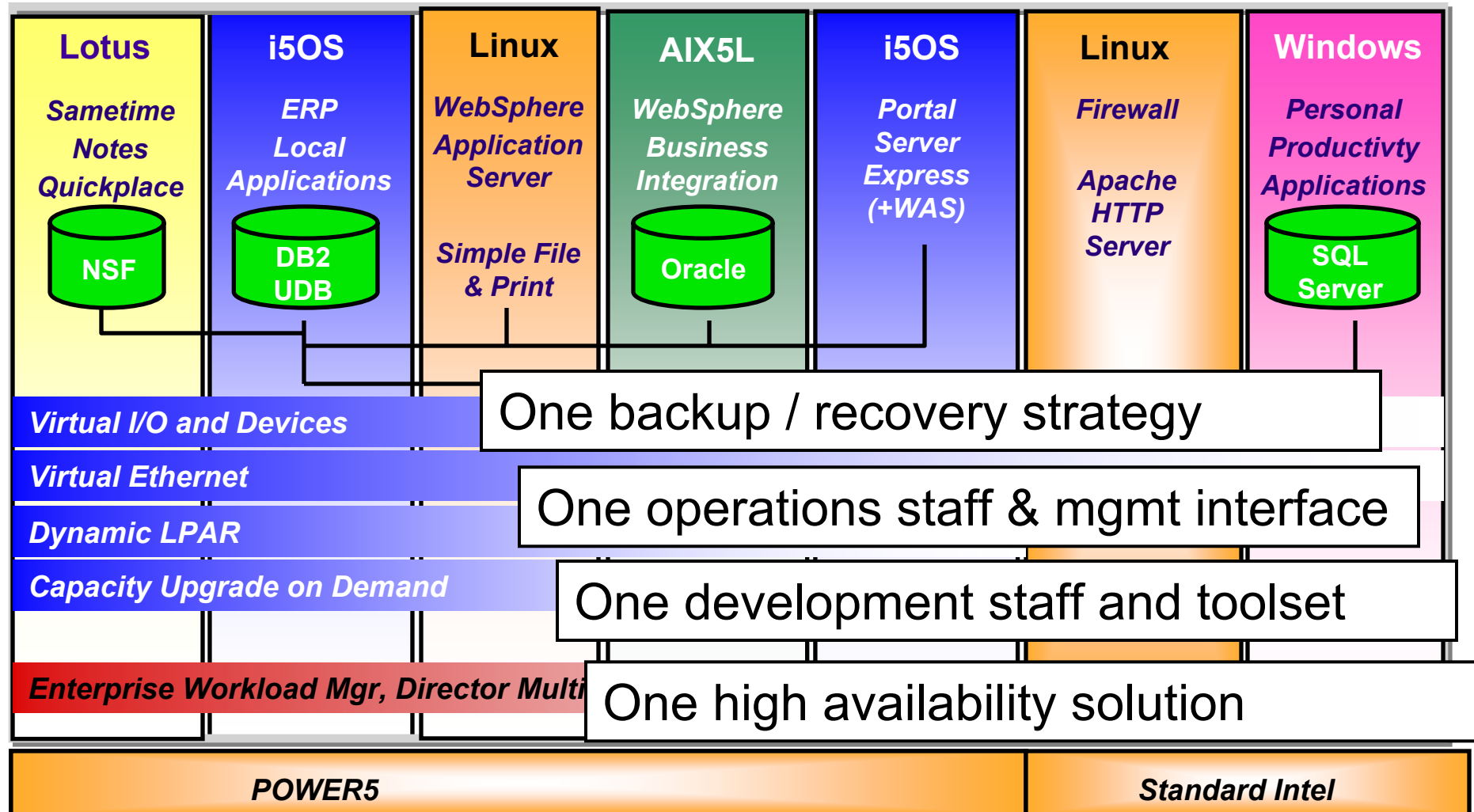


## iSeries:

Expanding workloads, one server



# Think Virtualization & IT Optimization





# Why System i5/iSeries for SOA?

- **You most likely have the tools you need to get started fast:**
  - WebSphere Development Studio client wizards build Web services from RPG/COBOL applications and DB2 UDB without programming
  - XML Toolkit for iSeries (5733-XT1) for consuming Web services within RPG/COBOL applications
  - WebSphere Application Server – Express Edition for hosting Web service based applications
- **On Demand: IBM System i5 Virtualization**
  - Dynamic resource allocation
  - Multiple Operating Support in LPAR or onboard/outboard Intel Servers supports any solution in the marketplace
- **Security**
  - Virus Resistant
  - i5/OS has the lowest number [single digits] of O/S vulnerabilities than any other commercial operating system
- **Scalability**
  - iSeries has highest growth path in the industry ranging from the smallest uni-processors scaling beyond mainframes

# Why choose iSeries for e-business applications?

Reduce IT labor cost and time	<ul style="list-style-type: none"><li>✓ An Integrated iSeries system is easier and faster to set up</li><li>✓ Dynamic storage management reduces system administration effort</li><li>✓ Many foundation components (e.g. DB2, WebSphere Application Server, Java Virtual Machine, HTTP server) are built into iSeries</li></ul>
Speed deployment	<ul style="list-style-type: none"><li>✓ iSeries wizard simplifies creating functional server configurations</li></ul>
Reduce operating costs	<ul style="list-style-type: none"><li>✓ With iSeries, you have only one physical system and system image to create and maintain</li><li>✓ iSeries requires fewer processors to support the same number of users</li><li>✓ iSeries hardware life-cycle is typically longer</li><li>✓ Upgrading to new OS release is relatively easy</li></ul>
Reduce risk	<ul style="list-style-type: none"><li>✓ iSeries is highly secure and virus-resistant</li><li>✓ iSeries Workload Estimator helps with correct sizing</li><li>✓ iSeries is committed to supporting IBM software products on the platform (WebSphere Application Server, MQ, Commerce, Portal, Workplace, WebSphere Business Integration, etc.)</li></ul>
Prevent productivity interruptions	<ul style="list-style-type: none"><li>✓ iSeries reliability is legendary</li><li>✓ iSeries architecture enables business continuity</li></ul>
Grow customer satisfaction	<ul style="list-style-type: none"><li>✓ iSeries has fanatically loyal customers... for many reasons</li></ul>
Business velocity: meet goals faster	<ul style="list-style-type: none"><li>✓ iSeries has a track record of fast time to value</li></ul>

# Questions?



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