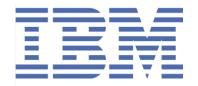


Çözümler Zirvesi 2013

Geleceği Şekillendiren Teknolojiler

ERP Ortamlarınız için IBM Altyapıları Özlem Koç SAP Çözümleri Uzmanı ozlem@tr.ibm.com IBM and SAP® have worked in tandem to deliver solutions to the market for over 40 years. As trusted, long standing partners IBM and SAP have collaborated to develop integrated, proven,top-to-bottom, end-to-end joint solutions ...







A perfect match for smarter businesses



"The SAP application portfolio is open to capitalize on the reliability and scalability of a heterogeneous POWER and x86 infrastructure. IBM's NGP will enable our clients to tune their server and storage infrastructures, matching the various SAP workloads onto an NGP optimized system. It promises to be a new way of simplifying the deployment and management of enterprise applications."

> Sethu M. Deputy CTO. Head of Product Architecture and Technology Strategy













How IBM Complements SAP Solutions

Strategy, Business and IT Consulting

- Corporate strategy
- **Business process** Reengineering
- Implementation Services
- IT Management Consulting

Applications



- SAP Business Suite
- SAP Business All-in-One
- SAP Business by Design
- SAP SAP Business One
- SAP Analytics Solutions
- SAP Mobility Solutions

Infrastructure Services

- Plan & Design
- **Build & Implement**
- Operate & Run

- Implementation Services
- Sourcing Services

Middleware



Information Human Interaction Software Collaboration Development Management

Systems

Transactions & Messaging

Business-

Governance. Intelligence Risk, Compliance



Lotus





WebSphere

Cognos. software



Infrastructure





Windows



AIX

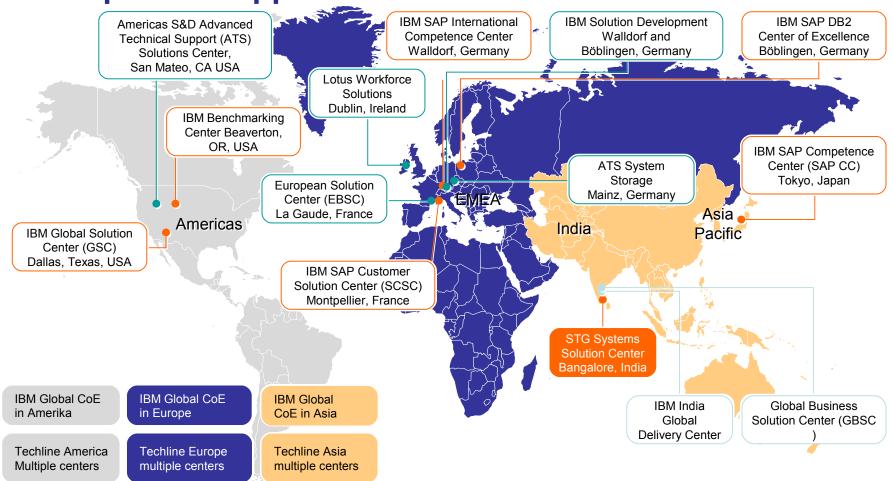




Servers and Storage



A Global Team of more than 26.000 IBM Employees develops and supports Solutions for and with SAP







IBM SAP International Competence Center (ISICC)

Provide technical pre-sales solution support for SAP applications and technology with IBM hardware and software platforms.



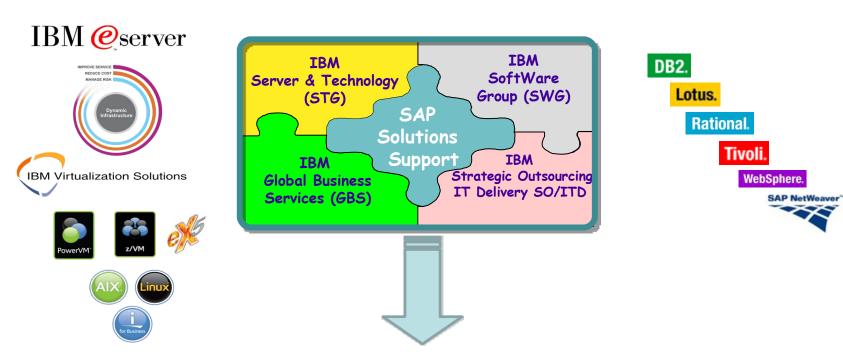
- On-Site Resources
 - IBM hardware and software brand experts
 - Technology managers
 - Solutions sales
 - Project managers
- Technology
 - IBM and SAP projects
 - Benchmarking/Sizing tests
 - · Redbooks and whitepapers
 - Tools
- Executive briefings

- SAP Sizing Expertise
 - Creation and ownership of worldwide sizing tools and processes
 - Support the IBM Techline resources
- Technical Sales Support
 - IBM Technical Sales
 - Business Partners
- Third level support when necessary

Founded by IBM and SAP in 1993, located at the SAP headquarters in Walldorf, Germany



Designing SAP Infrastructures



SAP Infrastructure Solution Team



What determines a customer's choice for a specific platform?

Customer preference for system hardware

"I want a System x for 250 SAP ERP users"

Customer preference for operating system

Customer has an enterprise UNIX OS strategy e.g. AIX

Installed system landscape

Customer has an IBM System i and wants to keep it

Skills to operate SAP infrastructure

Customer has a person who knows a spesific DB well and wants to use those skills

Availability of SAP components on the proposed platform

SAP Product Availability Matrix (PAM) to be considered

Ability of platform to fulfill business requirements

Availability, Security, special SAP solutions (BWA, ...)

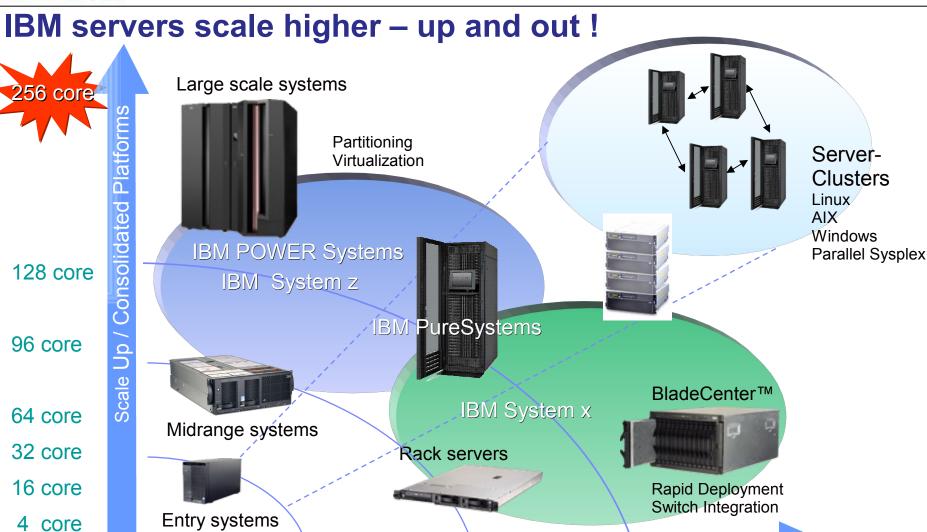
Usage scenario for planned HW

System z for a single SAP Development or Education environment?

Budget constraints







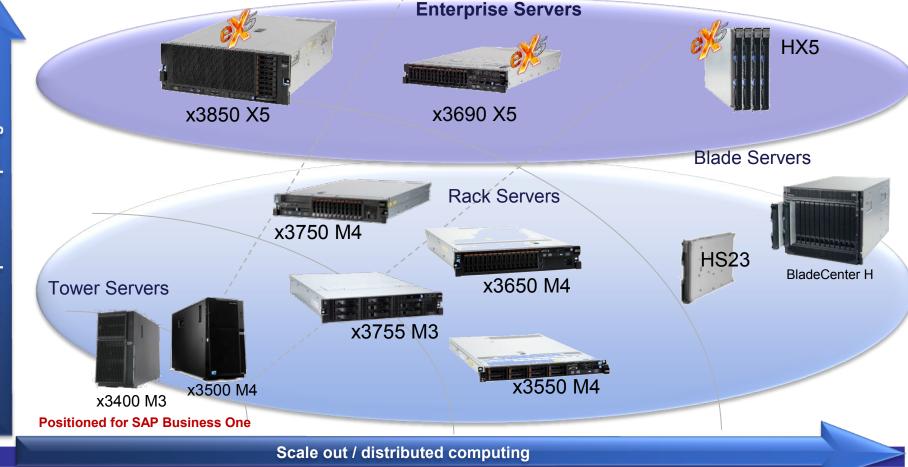




Scale Out / Distributed Platforms

IBM System x Scale out and Scale up options for SAP

A perfect match with the System x and Blade Center portfolio





eX5 Systems

Enterprise X Architecture 5th Generation Systems for a Smarter

Planet

Ideal for:



- Mission Critical SAP Application Servers
- SAP Database servers
- Virtualized SAP workloads
- SAP In-memory workloads
- Large B1 Hosting





57,330 (32C) SAPS



37,370 (20C) SAPS

System x3850 X5

Consolidation, virtualization of SAP systems, and SAP database workloads being migrated off proprietary hardware are demanding more addressability

BladeCenter HX5

Demand for minimum footprint in small but powerful datacenters as well as integrated networking infrastructure has increased the growth of the blade form factor to build integrated SAP solutions

System x3690 X5

Powerful and scalable system allows some workloads to migrate onto 2 socket design that delivers enterprise computing in a dense package which is specially enabled for large SAP B1 servers or consolidation / hosting of SAP B1 solutions







POWER up your SAP















AIX® - The Future of UNIX Total Integration with IBM i

Scalable Linux® ready for x86 Consolidation



Virtualization without Limits

- ✓ Drive over 90% utilization
- ✓ Dynamically scale per demand



Intelligent Energy Optimization

- √ 70-90% energy cost reduction
- ✓ EnergyScale[™] technologies



Resiliency without Downtime

- Roadmap to continuous availability
- High availability systems & scaling



Management with Automation

- ✓ VMControl to manage virtualization
- Automation to reduce task time

... Consolidation with Exponential ROI





11

Traditional Power Systems Family

Over 7 800 customers use IBM Power Systems w/ AIX to run their SAP Business applications.

Total of about 18,000 SAP DB-Server installs

> Power 740 Express Power Express 710,720,730



PS Blades



First POWER7+ Based systems (ann. 10/12)













...And New Members 2012

All ready to run







Power 750

Power 795

Power 780

Power 770









IBM PureFlex System

p460

p260

p24L





PowerLinux 7R1 / 7R2







IBM AIX® - most popular Unix for SAP





Go Green & Save

- Workload Partitions
- Live Application Mobility
- Partition Mobility
- Workload Partitions Manager for AIX





Manage Growth, Complexity & Risk

- Workload Partitions
- AIX Security Expert
- Role Based Access Control
- Encrypting Filesystem
- Binary Compatibility Guarantee*

*Details at ibm.com/systems/p/os/aix/compatibility





Realize Innovation

- Workload Partitions
- Live Application Mobility
- Concurrent Kernel Updates
- Continuous Availability features







IBM i 7.1

DB2 for IBM i



IBM Power7 Technology

Formerly named:



PowerVMTM Virtualization

Engine

AS/400 OS/400

PowerHATM Availability

Solutions

IBM Systems Director

Why IBM i for SAP?

IBM i is a powerful, easy-to-use and cost-effective IT platform for SAP customers.

IBM i is optimized for SAP and can simplify SAP solution landscapes, while requiring just a small IT staff.

DB2 for IBM i is embedded into the IBM i OS, and Optimized for SAP solutions. It is designed and tuned for extreme DB performance, esp. for Business Analytics tasks, like SAP BW / BI

IBM Power7 processors provides leading technology for SAP Solutions, with superior scalability and performance per core, socket, and system (as proven in SAP BI Benchmark), along with extreme power efficiency

Power System Software maximizes the SAP user value:

PowerVM provides leading virtualization without limits.

PowerHA offers extreme resiliency without downtime.

The IBM Systems Director is IBM's strategic system management tool for cross platform datacenter mgmt





Key Benefits of Running SAP Applications on IBM System z

Integration DB2 optimized for SAP. Capability to

handle huge volumes of data

Availability Reliability and maximum availability,

allowing maintenance of hardware and software components with zero downtime

Scalability Flexibility and near-linear scalability,

permitting dynamic system changes

Security Highest level of security for sensitive,

business-critical data

Efficiency Reduced infrastructure complexity through

consolidation, automation and virtualization



IBM System z[®] delivers extreme business value through industry leading security, availability, scalability, virtualization, and management capabilities



Delivering the value of expert integrated systems

PureFlex Infrastructure **Apr '12** Integrated and optimized infrastructure with flexibility Runs your choice of applications and middleware Delivering IT infrastructure services







- Integration by Design
- Built-In Expertise
- Simplified Experience

workloads



IBM PureFlex – Integration with IBM Software Products for SAP

Complete Integrated SAP IT Landscape - in one physical box

Hosting and Management of a complete IT Landscape:

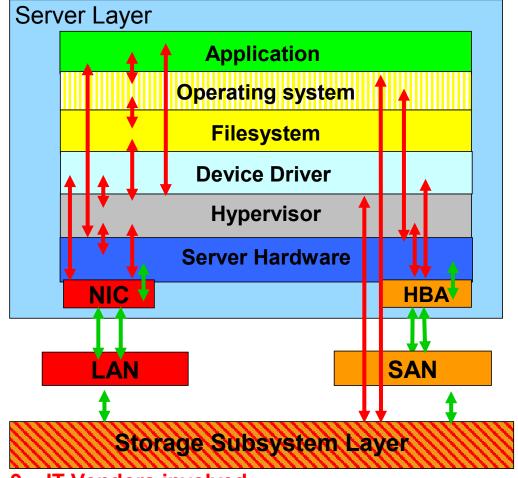
- SAP Production of
 - ERP
 - CRM
 - BW
 - · Business Objects Solutions
 - · Adope Document Services
- SAP Development / Test
- Communication: Lotus Domino
- Data Mangement: Tivoli Storage Manager
- User Interface: Websphere Portal
- Testing: Rational Performance Tester





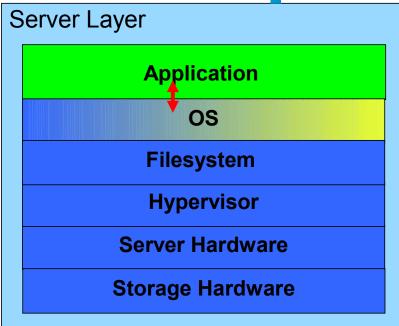


Individual/customized infrastructure



- IT Vendors involved
- 17 Compatibilities





- IT vendors involved much lesser compatibilities
- .. leads to less complexity, faster deployment and cost benefits



IBM Systems family for SAP Business Suite enterprises

- IBM Pure Systems
 - ✓ The Data Center in a Box.
 - ✓ Integrates Intel + POWER
 - Central HW/SW/App Mgmt
- IBM POWER AIX / Linux
 - ✓ The performance platform
 - > 27000 SAP installations

IBM POWER – IBM i

The integrated platform

~ 1400 customers

~ 3500 SAP installations

√ ~ 11000 customers

- IBM System x
 - ✓ The flexible platform
 - ✓> 25000 SAP installations
 - √~ 10000 customers
- IBM System z
 - √ The mission critical platform
 - ✓~ 1200 SAP installations
 - ✓~ 400 customers

Status: March 2012, estimated, total of 65000 SAP BS/A1 customers



- IBM Storage
- Optimized storage systems
 - Suited for SAP

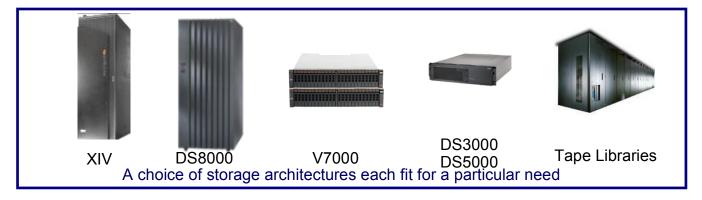






IBM Storage Portfolio

General Purpose Platforms



Storage Optimizers



Integrated Solutions







IBM DB2 - Database Champion for SAP Customers

COLGATE - PALMOLIVE





COCA COLA



... if you were to come up to me and ask me would we do this again, migrate to DB2, the answer would be a clear yes.

- Jim Capraro, VP GIT Colgate-Palmolive

...We are beta testing DB2 version 10 right now and the compression has gotten better again, we are going to see another 20% increase... Tom DeJuneas, IT Team Manager, CCBCC







Building Blocks for the IBM SAP HANA Smart Appliance

IBM System x3690 X5



IBM System x3950 X5





Configurations:

2 x E7-2870 Processors 128 – 256 GB DDR 3 (8 or 16 x 16 GB) 10 x 200 GB 1.8" MLC SSD

GPFS

Systems Director (Agent)
Novell SLES for SAP Applications
SAP HANA Software Stack

Configurations:

2 to 8 x E7-8870 Processors 256 GB to 1 TB DDR 3 (8 to 32 x 16 GB) 1 to 2 x 1.2 TB ioDrive2 FusionIO 8 to 16 x 900 GB 10k SAS

GPFS

Systems Director (Agent)
Novell SLES for SAP Applications
SAP HANA Software Stack

No storage. Near line storage !!!





Çözümler Zirvesi 2013

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IBM and SAP



Why IBM and SAP

For over 40 years, IBM and SAP have consistently delivered superior ROI through thousands of successful implementations. Our global business and technology solutions can help you innovate, adapt and compete.

What we offer

Solutions by business application

- IBM Systems and Services for SAP HANA
- IBM Cloud Solutions for SAP Clients
- IBM Mobility solutions for SAP Clients
- SAP Line of Business

Solutions by industry

- Aerospace and defense
- Automotive
- Banking
- · Chemicals and petroleum
- Consumer products
- Electronics
- Energy and utilities

Solutions by IBM offering type

Services

- IBM Global Services and SAP
- IBM Global Financing and SAP

Hardware

IBM Systems and SAP

We're here to help

Questions? Contact an IBM-SAP specialist.

E-mail IBM

Interviews with more than 1,700 CEOs worldwide!



Study insights can help leaders create more impactful connections with their employees, customers and partners







Çözümler Zirvesi 2013

Geleceği Şekillendiren Teknolojiler

Teşekkürler Thank you

