

Smarter Computing: Warum müssen sich IT-Infrastrukturen wandeln?



70% des IT-Budgets werden für Betrieb und Wartung verwendet¹

IT - Management als Cloud für mehr Effizienz und schnellere Time-to-market

22 Milliarden verbundene Endgeräte bis 2020², **8 Zettabytes** an Daten bis 2015 (**90%** unstrukturiert)³

Die Analyse der Daten zur Entscheidungsunterstützung

Die durchschnittliche IT-Infrastruktur eines Unternehmens erfährt fast **60.000 Attacken täglich**⁴

Den Schutz kritischer Information für Compliance und Risikoreduktion

¹ Source: IDC, Analyst Matt Eastwood, IDC Directions Presentation, 2011

² Source: Forrester, BT 2020: To Thrive In The Empowered Era, You'll Need Software, Software Everywhere, January 2012

³ Source: IDC Predictions 2012: Competing for 2020

⁴ Source: 2012 Data Breach Investigations Report

Neue Lösungen für die Infrastruktur von morgen: Die IBM Ankündigungen vom 5. Februar 2013

Die Kombination aus

- Hardware
- Software
- Services

schöpft aus einer großen Anzahl an Möglichkeiten für die kundenspezifisch richtige Lösung.



- **News bei**
- PureSystems
- PowerSystems
- IBM Storage
- IBM System x
- IBM System z
- IBM System Networking

Power Systems

- **New!** Power 760
- **New!** IBM PureApplication System on Power (See Pure section)
- **Update!** Power 710 Express
- **Update!** Power 720 Express
- **Update!** Power 730 Express
- **Update!** Power 740 Express
- **Update!** Power 750 Express
- **Update!** PowerLinux 7R1
- **Update!** PowerLinux 7R2
- **New!** IBM PowerLinux Solution for WebSphere Mobile and Web Development
- **Update!** IBM AIX Solution Edition for Cognos on Power
- **Update!** IBM AIX Solution Edition for SPSS on Power
- **Update!** IBM i 7.1 TR6
- **Update!** Software Developer Kit v1.3
- **Update!** Installation Toolkit v5.4
- **New!** IBM System Networking RackSwitch G8264CS (See Networking)
- **New!** IBM System Networking RackSwitch G8264T (See Networking)
- Enhanced I/O

System Storage

- **New!** IBM SmartCloud™ Storage Access
- **New Model!** IBM XIV® Storage System Gen 3
- **New Model!** Real-time Compression Appliance STN7800, v4.1
- **Update!** IBM System Storage TS7600 ProtecTIER® Deduplication Solution

v3.3

Technical Computing

- **Update!** System x iDataPlex dx360 M4 R2
- **Update!** Platform LSF enhancements 9.1.1
- **Update!** Platform LSF add-ons 9.1
- **Update!** Platform Cluster Manager – SE 4.1

PureSystems

- **New!** IBM PureApplication System Models
 - Entry config (x86)
 - Power-based configs
- **Update!** IBM PureData Analytics System

System z

- **Update!** Intelligent Operations Center for Smarter Cities®
- **Update!** IBM Smarter Infrastructure for Social Services - Curam on zEnterprise
- **New!** IBM Smarter Analytics Anti-Fraud Infrastructure for zEnterprise
- **Update!** IBM® DB2 Analytics Accelerator V3.1 (*announcing 1/22*)
- **New!** IBM® Enterprise Key Management Foundation
- **Update!** IBM IT Asset Management (Maximo) for Government
- **New!** IBM zEnterprise Smarter Analytics for Retail
- **New!** z/OS® V2.1 and z/OS® Management Facility (z/OSMF) V2.1 *Preview*
- **New!** IBM® z/VM 6.3 *Preview*
- **Update!** IBM Implementation Services for GDPS *Preview*

System x

- **Update!** IBM System x iDataPlex dx360 M4 Refresh 2
- **New!** IBM Systems Solutions for SAP HANA (Edge & Business One)

System Networking

- **New!** IBM System Networking RackSwitch G8264CS
- **New!** IBM System Networking RackSwitch G8264T (Power)
- **Update!** IBM iFlow Director 2.2

GTS

- **Update** IBM SmartCloud Managed Backup
- New** IBM SmartCloud for SAP Applications
- Update** IBM SmartCloud Enterprise +
- New** IBM SmartCloud Application Services

Neues bei PureSystems

Flex System



MSP Editions
VDI
Interoperability

PureFlex



PureApplication



New
Models

PureData



New
Models

• Flex / PureFlex System:

- Managed Service Provider editions
- Virtual Desktop Infrastructure solutions
- Interoperability
 - Storage systems: HP, Hitachi, EMC, NetApp
 - Network systems: Brocade, Juniper, Cisco
 - FSM support of DS8000 und XIV

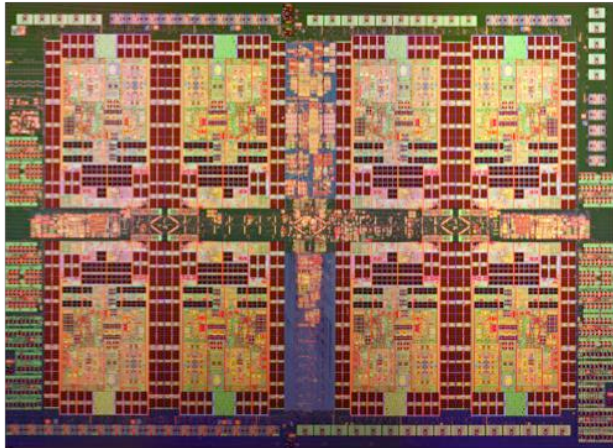
• PureApplication System:

- x86 Entry System (32 & 64 Core)
- POWER7+ model

• PureData for Analytics:

- Hardware refresh

Neu: POWER7+ für Express Power Systems 710-750, neues Modell Power 760



Power 710 / 730



Power 720 / 740

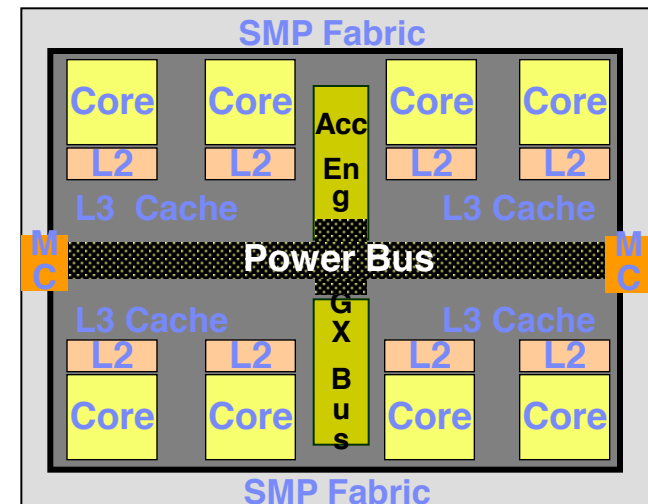


Power 750 / 760



Features:

- ✓ Higher Frequencies
- ✓ Larger L3 Cache
- ✓ Active Memory Expansion
- ✓ Encryption / Cryptography Support
- ✓ 20 Virtual Machines per core
- ✓ New Dual Chip Modules



POWER7+
32 nm

Das neue Power Systems-Portfolio mit POWER7+



**Flex System
PureFlex
System**



**PureApplication
System**



**PureData System
for Operational
Analytics**



Power 770



Power 780



Power 795



Power 760

- Up to 48 cores
- CUoD (processor)
- 4-socket 5U
- 2TB memory
- Hot-swap PCI adapters
- SSR installed

- 64, 128, 256-cores
- Up to 16TB
- CUoD Processor, Memory
- Elastic CoD
- Upgrades from POWER6
- Enterprise RAS
- Active Memory Mirroring



Power 730

- Up to 16 cores
- 2-socket, 2U
- 512 GB memory



Power 740

- Up to 16 cores
- 2-socket, 4U
- 1 TB memory



Power 710

- Up to 8 cores
- 1-socket 2U
- 256 GB memory



Power 720

- Up to 8 cores
- 1-socket 4U or Tower
- 512 GB memory

PowerLinux™ 7R2



- POWER7+ processors
- Up to 16 cores
- 2-socket 2U
- 512 GB memory

PowerLinux™ 7R1



- POWER7+ processors
- Up to 8 cores
- 1-socket 2U
- 256 GB memory

Linux on Power



Linux support of POWER7+ Systems

Red Hat Enterprise Linux 6.4

SUSE Linux Enterprise Server 11 SP2

IBM Solution for WebSphere Mobile Development on PowerLinux

A new lightweight, fast, flexible & simplified Application Server for developing and running Mobile applications. The solution can also be used for Web and OSGI applications

IBM Installation Toolkit V5.4

Adds compatibility with new POWER7+ hardware and all latest and greatest RHEL/SLES versions

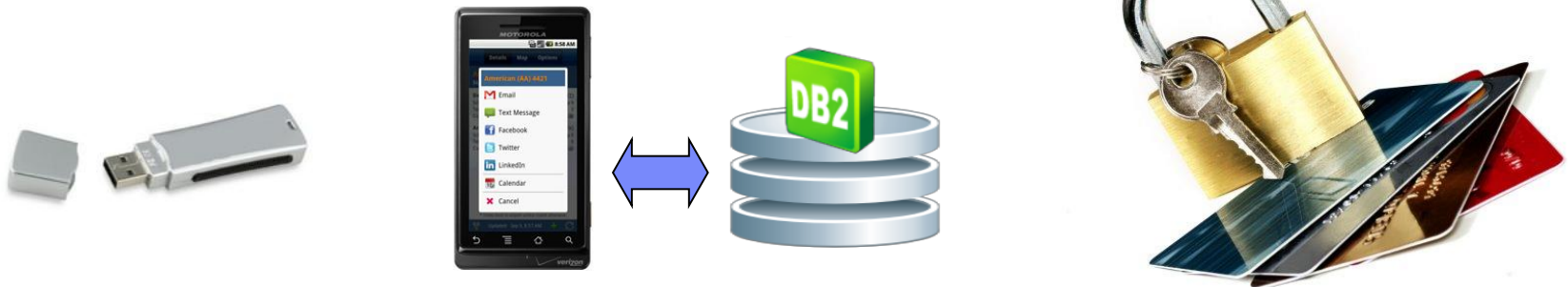
Simplifies 'out of box' experience for new Linux users, or Linux x86 users

IBM Software Development Kit V1.3

Ensures that applications can be maintained as a single source that is portable yet tuned for the important platforms, with unique tools integrated into a common Eclipse framework.

IBM i Technology Refresh 5 - Highlights

- **Value proposition of DB2 for i extended:**
usability, manageability and performance
- **Support for latest POWER7+ Express Servers**
- **PowerHA SystemMirror for i extends support to SAN Virtual Controller (SVC) and Storwize V7000**
- **IBM Mobile Database solution can use DB2 for i as source**



IBM XIV Storage System Gen3

Up to 5x increase in iSCSI throughput and up to 4.5x performance increase with SSD Caching



IBM System Storage TS7600 ProtecTIER Deduplication

Enhanced connectivity with FSI-NFS support, more capacity expansion options, improved ease of use



Learn More: www.ibm.com/systems/storage/tape/protectier

IBM Real-time Compression Appliance Model STN7800, v4.1

5x Compression in Real-time: Faster and simpler than ever



Learn More: <http://www.ibm.com/storage/network/rtc>

IBM iDataPlex dx360 M4 Refresh 2

Designed for data centers that require high performance, yet are constrained on floor space, power and cooling infrastructure.



- Intel Xeon Phi 5110P coprocessor
- NVIDIA Tesla K20 & K20X GPUs, NVIDIA VGX K1 & K2 GPUs
- Intel® Xeon Phi™ coprocessor, > 1 Teraflop double precision peak performance
- NVIDIA® Kepler™ Tesla GPUs, 3x double precision peak performance over previous gen.

Learn More: www.ibm.com/systems/x/hardware/rack/dx360m4

IBM Systems Solution for SAP HANA

SAP HANA Edge Edition

SAP HANA Edge Edition: accelerated analytics for SAP Business All-in-One mid-market clients



SAP Business One Analytics powered by SAP HANA

SAP HANA Business One Analytics powered by SAP HANA: accelerated analytics for SMB clients

Learn More: <http://www.ibm.com/solutions/sap/hana>

IBM DB2 Analytics Accelerator V3.1

Enhancements to zEnterprise System to improve connectivity for data serving



IBM Smarter Analytics Anti-Fraud Infrastructure for zEnterprise

System z Banking, Government, Healthcare and Insurance Industry Solutions



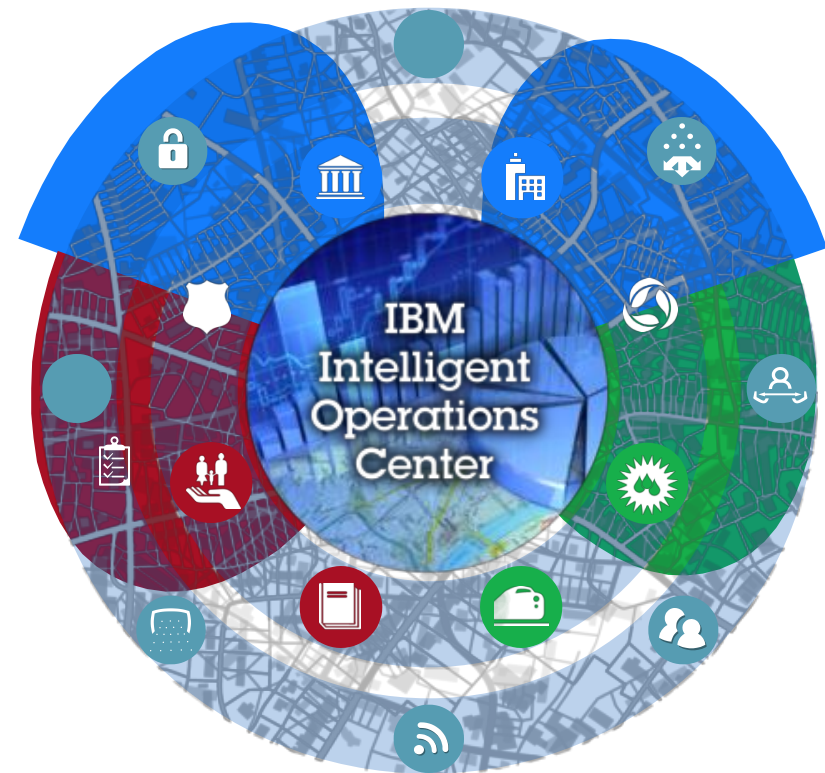
IBM Intelligent Operations Center for Smarter Cities

Smarter Operations – across departments and agencies

Real-time visibility of key data

Manage and mitigate incidents

Coordinate resources and processes to respond to situations rapidly



IBM z/OS V2.1: A Smarter Foundation to Drive Smarter Computing

Outstanding Availability, Data Serving and Security: Business Innovation on z/OS



IBM z/VM 6.3 *Preview*

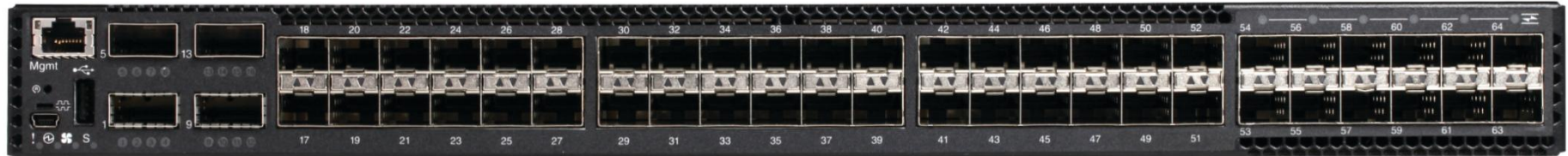
New Enhancements Improve Efficiency at Scale



Learn More: www.vm.ibm.com

IBM System Networking RackSwitch G8264CS

Converged switch with flexible Ethernet and Fibre Channel Ports



IBM System Networking RackSwitch G8264T

10 Gb network infrastructure with affordable copper cabling



IBM Smart Cloud

IBM SmartCloud For SAP Applications

delivers SAP systems through a managed cloud environment and includes a full-service scope for managing infrastructure and applications

IBM skills
and experience

Skills



Processes



Assets and tools



Analytics

