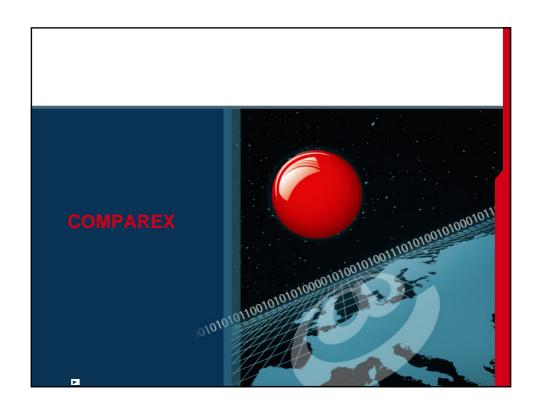
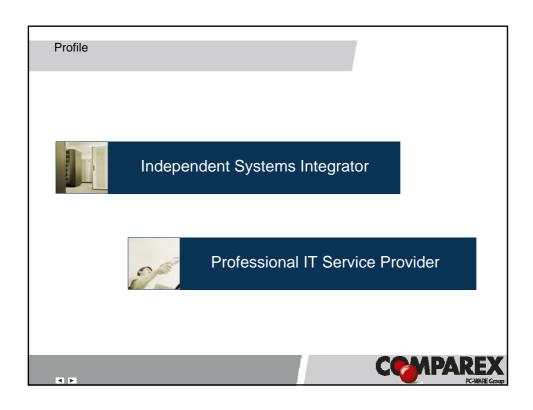
Virtualizacija diskovnih sistemov

IBM SVC in IBM N-series

Aleš Leskošek, COMPAREX d.o.o.









Profile

Milestones

- 1975 BASF IBM compatible mainframes and storage systems
- 1987 Foundation of COMPAREX Informations systeme GmbH as a Joint-Venture between BASF and Siemens
- 1991 COMPAREX becomes a 100% BASF subsidiary
- 1996 Persetel acquires 40% of COMPAREX
- 1998 PQ Holdings/Persetel extends its share to 75%, Re-Naming of PQ Holdings into COMPAREX Holdings
- 1999 COMPAREX Holdings fully takes over COMPAREX
- 2000 New Focus via strategic Partnerships with EMC and Sun
- 2002 Management Buy Out in Europe, Extension of the strategic Partnerships (IBM and HP) and Positioning as independent Systems Integrator

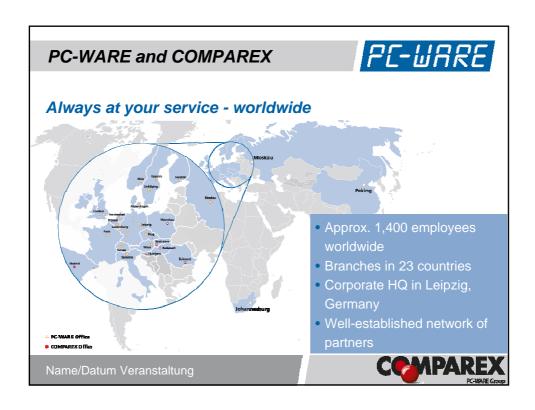
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2007 - A partnership built for the future

PC-WARE and COMPAREX





PC-WARE and COMPAREX



We aim to inspire our customers with:

- Best-in-class expertise covering software, hardware, IT consulting and IT services
- 2. Expert know-how and a truly customer-oriented approach centred around highly qualified staff with industry certification
- 3. In-depth knowledge of **software licensing and software asset management** as well as efficient pricing structures
- 4. A global presence combined with local proximity to clients
- Partnerships to market-leading vendors (IBM, EMC, SUN, Symantec, Microsoft EMEA Large Account Reseller)

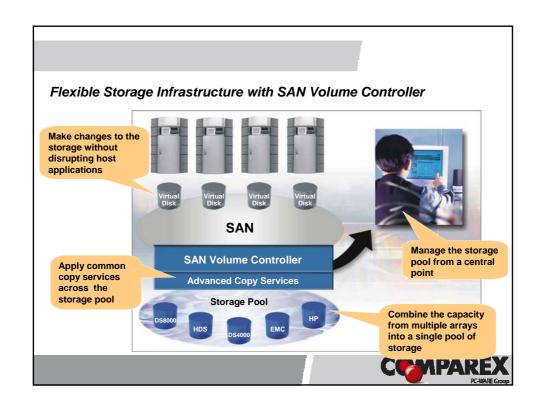
www.pc-ware.com

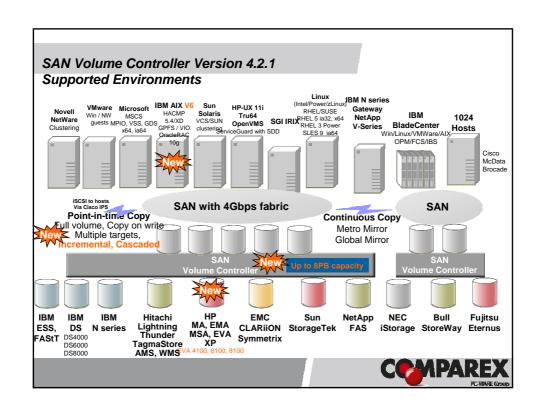


IBM SAN Volume Controller



SVC Facts IBM has 40 years experience in virtualization technologies IBM has shipped over 9900 SVC engines running in more than 3400 SVC systems There are more than 130 customer references and 24 customer case studies for SAN Volume Controller SAN Volume Controller is a proven offering that has been delivering benefits to customers for four years SAN Volume Controller demonstrates scalability with the fastest Storage Performance Council benchmark results SAN Volume Controller can virtualize IBM and non-IBM storage (over 120 systems from IBM, EMC, HP, HDS, Sun, Dell, NetApp, Fujitsu, NEC, Bull)





IDM N. comica		
IBM N-series		
		COMPAREX
		PC-MARIE Group

How customers are buying storage?

Features and capabilities:

- Max. Number and type of disks
- Max. Capacity and performance
- Cache size
- Number of snapshots
- Management?!?

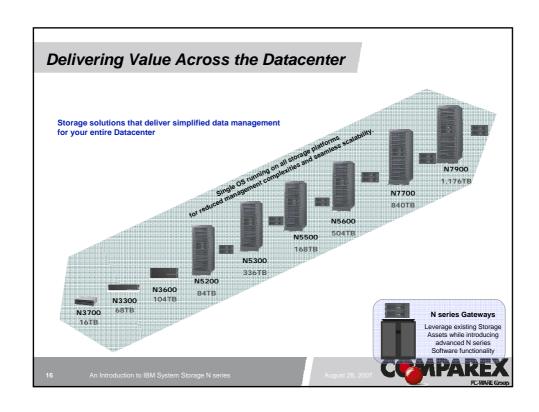
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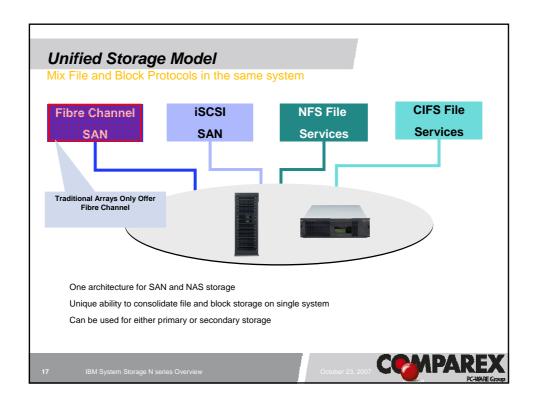


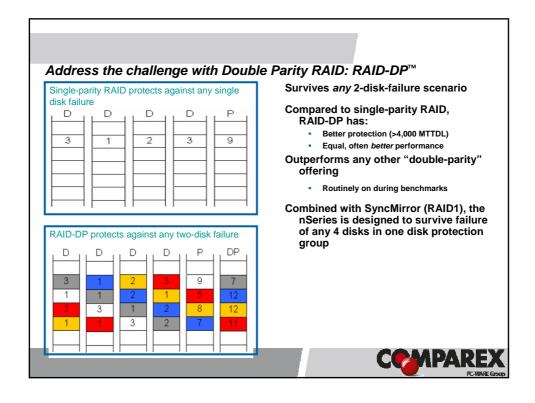
Optimal purchase process

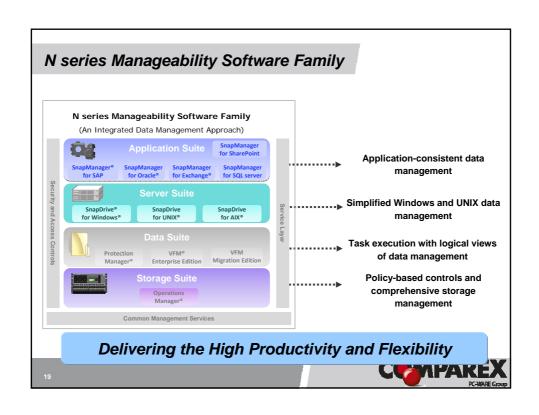
- Management
- Servicability
- Flexibilty
- Server and application integration
- Usage of advance functions
- •

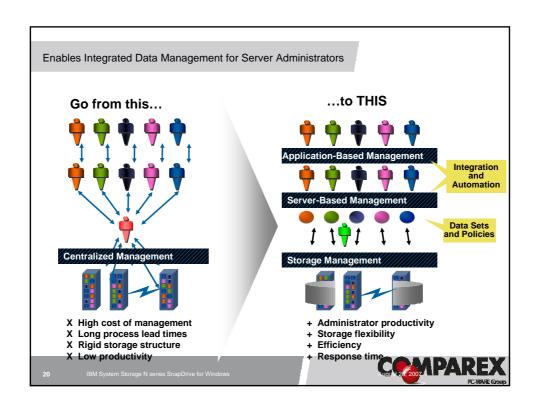


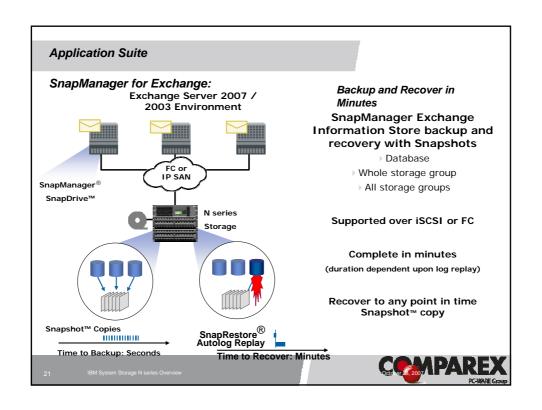


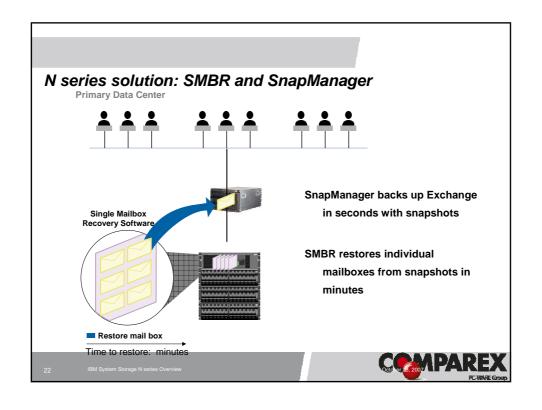


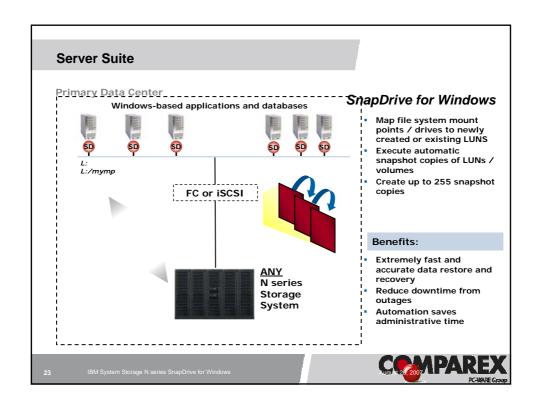


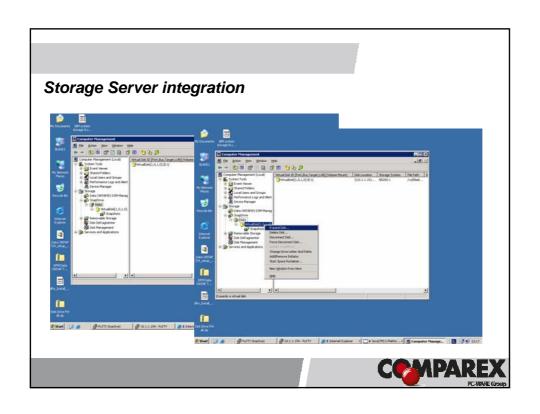


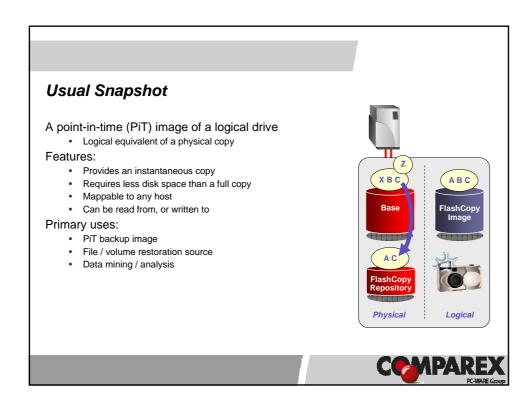


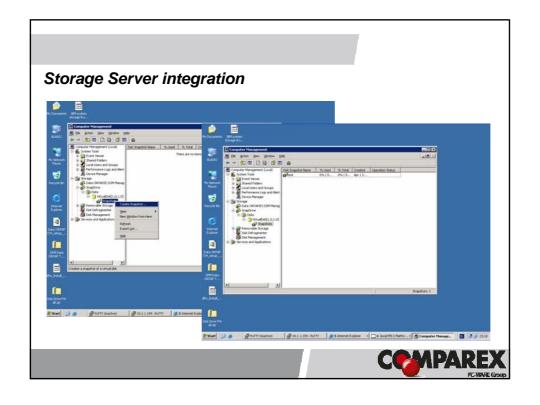


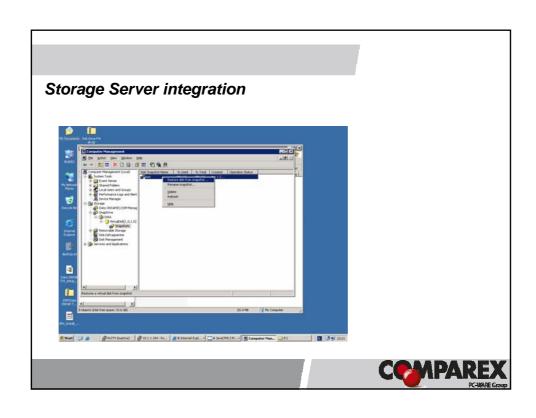


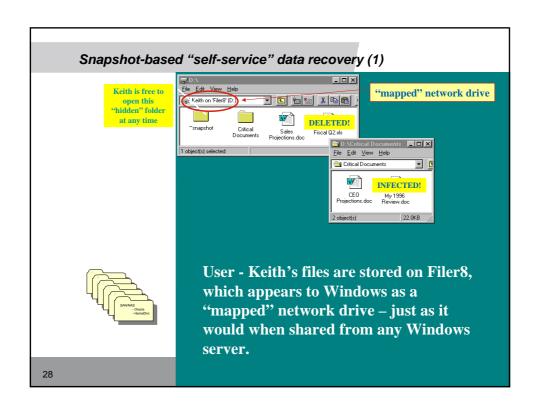


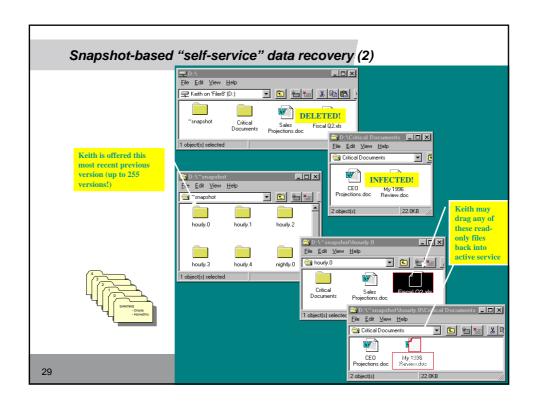










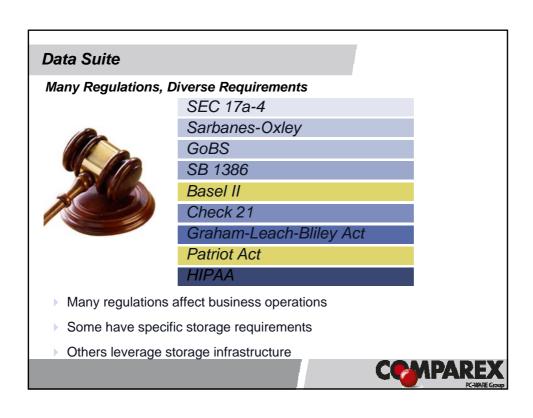


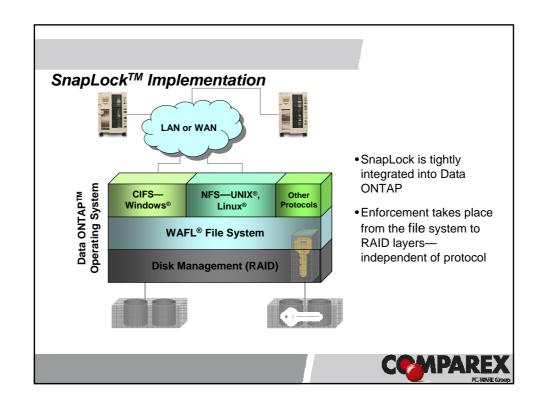
Why server integration is important

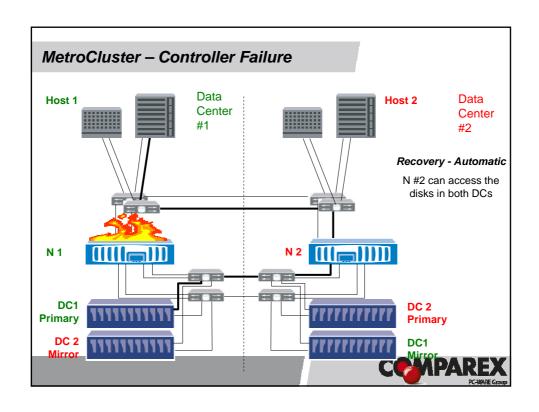
Virtualization is the main driver. For example:

- VMware is owner of storage resources
- VMware can perform snapshots
- VMware is doing migration
-









	Event: Subject line of				Technical
	Autosupport email message	Description	Message severity	Frequency of message	support priority
Autosupport	POSSIBLE BAD RAM	Correctable ECC error are masked off. Possible bad or poorly seated memory or faulty motherboard.	Warning	Daily	3
	BATTERY_LOW	The NVRAM lithium batteries are low (approximately 2 days supply of power).	Warning	Hourly	2
	BMC_EVENT: BUS ERROR	A Baseboard Management Controller event has been detected.	Warning	One Time	3
	BMC_EVENT: POST ERROR	A Baseboard Management Controller event has been detected.	Warning	One Time	3
	CHASSIS OVER TEMPERATURE SHUTDOWN	This message is issued when the chassis temperature is too hot. This is sent just before shutdown.	Critical	One Time	1
	CHASSIS POWER DEGRADED: %s	Degraded power might be caused by bad power supplies, bad wall power, or bad components on the motherboard. If spare power supplies are available, try sechanging them to see if that alleviates the problem. Otherwise contact IBM for further direction.	Notice	Daily	3
	CHASSIS POWER SHUTDOWN	This message is issued when one PSU falled. Replacement The voltage sensors for system power road critical values. (more than critical high/less than critical low). PSU may be required. Contact IBM for further direction.	Alert	Daily	3
	CHASSIS FAN FRU DEGRADED: %s	This message indicates a chassis Fan is degraded. The fan may need replacing. A motherboard swap may be required. Contact IBM for further direction.	Notice	Daily	3

What COMPAREX offers

- The best people and the largest number of the people in the industry
- The biggest references
- Independent approach
- Longterm skills and market overview



Vprašanja? Hvala

Aleš Leskošek, COMPAREX d.o.o.

