



Backup & Datensicherung

Christian Uekermann



Gegründet **1982**

7 Milliarden \$ Umsatz

Über 20,000 Mitarbeiter

1 Milliarde \$ für Forschung & Entwicklung

100 Prozent der "Fortune 500" sind unsere Kunden





Wir schützen über 1 Milliarde Systeme

**Wir prüfen 8 Milliarden Emails und
1.4 Milliarden Webseitenaufrufe pro Tag**

Größter Anbieter für Backup and Recovery weltweit

Wir schützen 135 Millionen Endkunden mit Norton





SYMANTEC IS
ONLINE STORAGE.



SYMANTEC IS
BACKUP.



SYMANTEC IS
VIRTUALIZATION.



SYMANTEC IS
RECOVERY.



SYMANTEC IS
**DATA LOSS
PREVENTION.**



SYMANTEC IS
REAL-TIME.



SYMANTEC IS
COMPLIANCE.



SYMANTEC IS
PROTECTION.



SYMANTEC IS
DISCOVERY.



SYMANTEC IS
**EMAIL
ARCHIVING.**



SYMANTEC IS
CONFIDENCE.



SYMANTEC IS
**CENTRALIZED
MANAGEMENT.**



SYMANTEC IS
**EMAIL
SECURITY.**



SYMANTEC IS
**INFORMATION
MANAGEMENT.**



SYMANTEC IS
**COMPREHENSIVE
ENDPOINT PROTECTION.**



Unser Ziel: Hochintegrierte Lösungen

Current Offering Examples

User Productivity & Protection

Endpoint Protection
Endpoint Encryption
User Authentication
Enterprise Mobility

Norton 360
Norton Mobile Security
Norton Data Services

Information Security

Managed Security Services
Data Loss Prevention
Mail and Web Security

Control Compliance Suite
Critical System Protection
Trust Services

Information Management

Storage Foundation HA
NetBackup
Enterprise Vault/eDiscovery

Backup Exec
BE.cloud
FileStore

Neue Integrierte Angebote lösen Business-Probleme

Entwicklungszeitraum: 6-24 Monate

New Higher-Value Offerings

User Productivity & Protection

Mobile Workforce Productivity
Norton Protection
Norton Cloud

Information Security

Cyber Security Service
Identity/Content-aware Security Gateway
Data Center Security

Information Management

Business Continuity
Object Storage Platform
Information Fabric
Software Defined Storage



IT Herausforderungen heute:

Warum brauchen wir besseres Backup?

Reduzierung von Kosten und Komplexität



Sicherung von virtuellen Umgebungen



Backup Fenster und Recovery Zeit



Datenwachstum



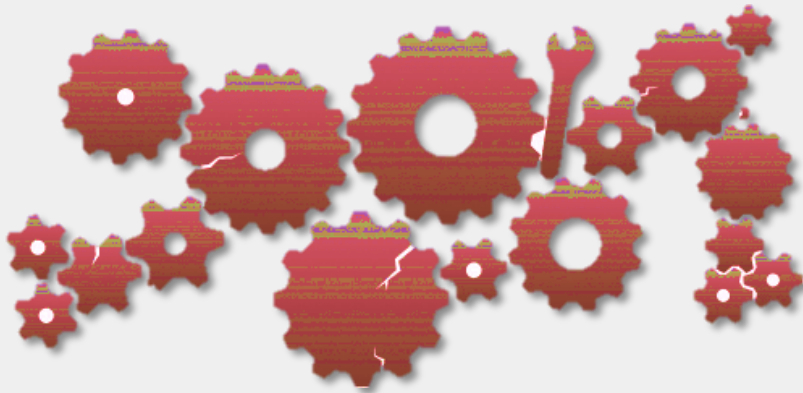
Verbesserung der Zuverlässigkeit von Backup & Recovery



IT Herausforderungen heute:

Warum brauchen wir besseres Backup?

Ungleiche Lösungen



■ Ungleichheit führt zur Komplexität und Kosten...

- Kein Überblick über virtuell und physikalisch
- Unkompatible Speicher
- Multiple Management Konsolen
- Multiple vendors/maintenance/support

“Organizations small and large need a holistic protection strategy, a single platform or solution, to handle the variety of data types and workloads as opposed to integrating a number of disparate point solutions...”¹

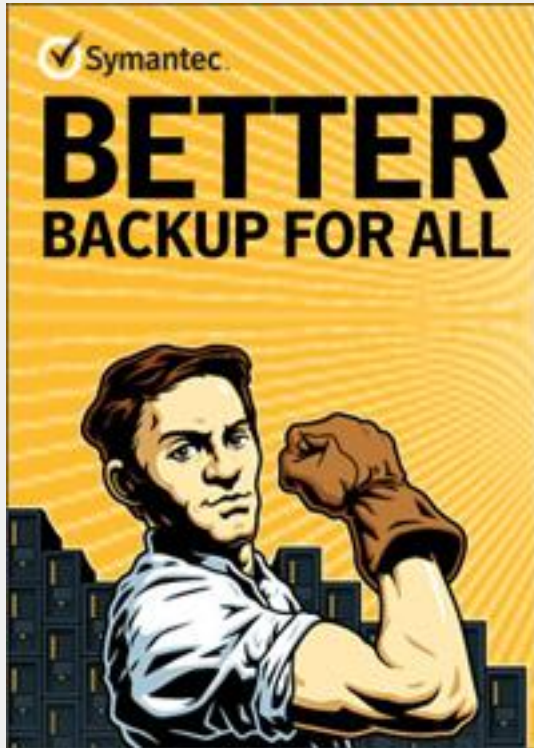
Dave Russell

VP, Storage Technologies and Strategies, Gartner

1. IT Briefing Center video: Managing and Reducing Costs of Enterprise Data Protection. featuring Dave Russell, Gartner and Brian Dye, Symantec. http://www.itbriefingcenter.com/programs/gartner_1371_symantec.html



Symantec Backup Lösungen



Symantec System Recovery

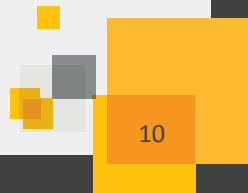
Symantec Backup Exec "Small Business Edition"

Symantec Backup Exec

Symantec NetBackup

Lösung I – No Tape Szenario

- Kleine – Mittlere Windows-Umgebungen
- Plattformen: Windows, **wenige virtuelle Systeme (<10)**
- KEINE BANDSICHERUNG GEWÜNSCHT!
- **Symantec System Recovery** als Komplett-Lösung
 - Einfachste Bedienung
 - Reine Disk Lösung
 - Backup von Systemen/Dateien
 - VSS-basierte Applikationssicherung (Exchange,SQL)
 - Granulare Rücksicherung von Exchange/Sharepoint Daten (GRO)
 - Rücksicherung auf unterschiedliche Hardware
 - hardware-unabhängig
 - Image-basierte Sicherung/Rücksicherung
 - schnell



Lösung II – Klassischer Ansatz

- Mittlere – Grosse Windows-Umgebungen
- Plattformen: Windows, Linux, **virtuelle Systeme (>10)**
- Bandkopien erwünscht, möglicherweise NDMP
- Datensicherung mit **Symantec Backup Exec**
 - Konventionelle Sicherung B2D2T gewünscht
 - Schutz von Linux-Ressourcen
 - Schutz von virtuellen Umgebungen
 - Verteilte Ressourcen schützen (Exchange DAG, Sharepoint-Farmen..)
 - Backup-Daten sollen in die Zentrale repliziert werden
 - Optimierte Duplikation

Skalierbarkeit zum Schutz Ihrer Infrastruktur

Protect the latest
platforms and applications



Backup Exec™ 2014
Server



New!

Support for Windows
Server 2012/2012R2, Exchange
2013/SP1, SharePoint
2013/SP1 & SQL 2014

Backup to disk, tape and cloud storage
(local or remote)

Single-pass backup
of virtual machines and
physical servers



**Coming
Soon!**

Support for Amazon
Cloud Gateway VTL



NDMP



Disk



NAS



Tape



Cloud



Tape Libraries



Big Brother

Wenn Backup Exec nicht mehr ausreicht...

Wann brauche ich eigentlich NetBackup?

- Kern-Systeme auf Nicht-Windows-Plattformen
- Kritische Applikationen/Datenbanken auf LINUX/UNIX
- Massive NetApp Filer im Einsatz
- Massive Virtuelle Umgebungen (500+ VMs)
- Deduplication übergreifend für Windows/Linux/Unix
- High-Speed SAN-Clients
- Off-host Backup für Linux/Unix
- Disaster Recovery für Windows, Linux und Unix
- >100TB / Petabyte+ Umgebungen



Aufbau der NetBackup Platform

3 Key Investitionsgebiete

1. Optimierung der Quellenauslastung



Physical

Accelerator



Virtual

V-Ray



Arrays

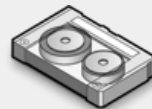
Replication
Director



Big Data

DB Agent
Support

2. Freiheit bei der Zielauswahl



Tape



Disk



Appliances



Cloud

Drive out cost with in-line, non-rehydrating, mega-scale dedupe

3. Vereinfachen des Betriebsmodells

- Appliances
- Self-monitoring
- Auto-configuration
- IT Self Service
- Telemetry
- Legal Search & Hold



NetBackup Appliances

Was ist eine NetBackup Appliance?



Symantec™ Critical System
Protection



vSphere® backup integration



NetBackup with intelligent
deduplication



Veritas Storage Foundation™
from Symantec



Symantec hardened
operating system



Optimized hardware



Redundant storage

Built-in WAN optimization



Warum NetBackup Appliances?

Building a Backup Solution



- Hardware acquisition & update
- Software acquisition & patches
- Install-integrate-test-deploy
- Multiple consoles
- Multiple vendor relationship

NetBackup Appliances



- Simplified backup-lower OpEx
- Elimination of integration complexity
- Predictable performance
- One vendor-easier acquisition
- Single pane of glass management



NetBackup Appliance Product Family

Comprehensive Portfolio to deliver Enterprise-class solutions



4TB

Media or
Master Server



14TB

Media or
Master Server



148TB

112TB

76TB

40TB

Media Server with
deduplication



114TB

Enterprise appliance with
deduplication



229TB

**New Portfolio
Addition
GA March 2015**

NetBackup 5230

Versatile Implementation

Flexible Expansion, Cost Optimized

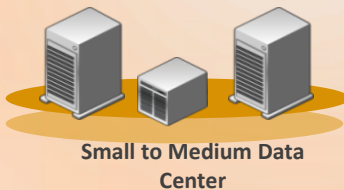
NetBackup 5330

Mission Critical Workloads
Performance and Resilience
Optimised

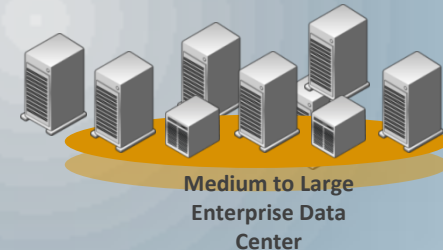
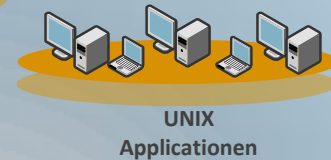
Einer für alles reicht nicht mehr:

Datenschutz von SMB bis Large Enterprise

Backup Exec



NetBackup



**Backup Exec -
Small to Medium Size Business**

**NetBackup -
Enterprise & Large Enterprise**

Einer für alles reicht nicht mehr:

Datenschutz von SMB bis Large Enterprise

Backup Exec

- Einer bis dutzende von Servern
- GB bis TB Daten
- Windows Umgebung
- Windows Server Recovery
- Granulare Wiederherstellung des Active Directory
- €-€€

NetBackup

- Hunderte Server
- 50+TB Daten
- Windows, Linux
- Granulare Wiederherstellung von Exchange, SharePoint
- Deduplikation
- Tausende von Servern
- TB bis PB Daten
- Heterogene OS Umgebung
- Multi-Plattform & Datenbank Unterstützung
- €€-€€€

**Backup Exec -
Small to Medium Size Business**

**NetBackup -
Enterprise & Large Enterprise**



Familientreffen

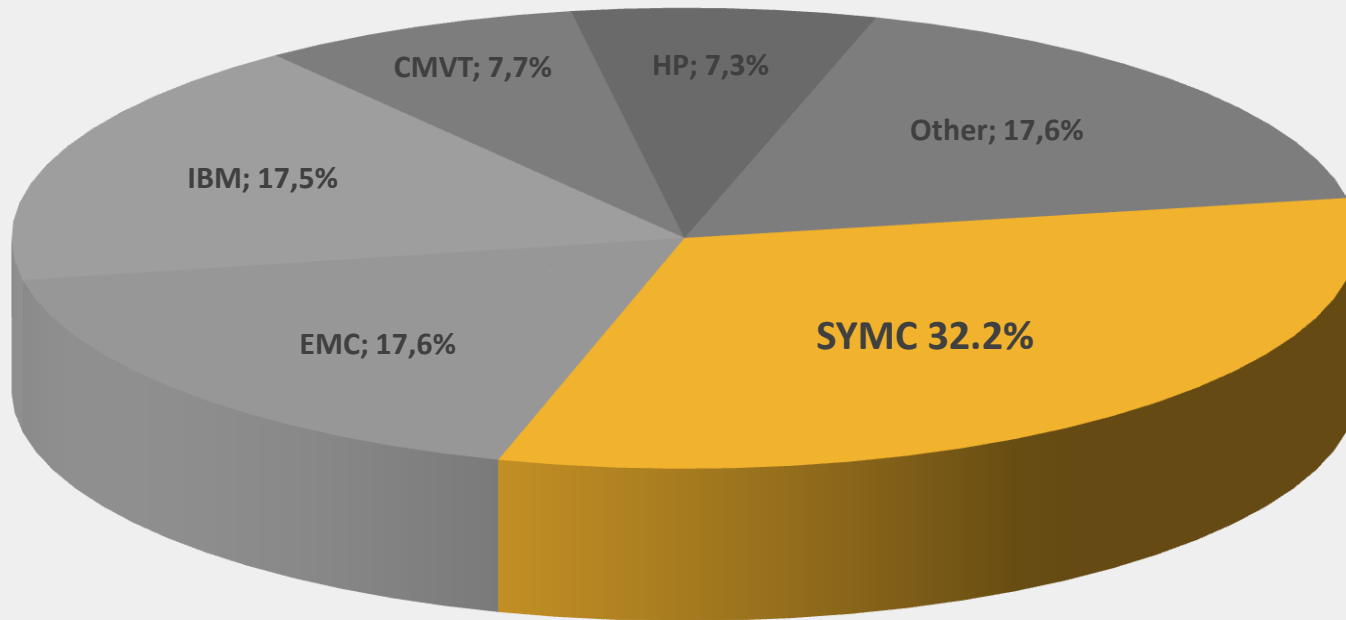
Backup für ALLE...

Symantec Backup & Recovery Portfolio

- Windows - NUR DISK
 - Symantec System Recovery (SSR)
- Windows – klassisch Microsoft (Exchange/Hyper-V/...)
 - Backup Exec “Small Business Edition” (BE SBE)
- Windows und ein bisschen mehr (VMware/Linux/Tape/NDMP/...)
 - Backup Exec (BE)
- Volles Programm: Unix/Linux/Windows/NetWare/NDMP
 - NetBackup (NBU)
 - NetBackup RealTime Protection (NBU-RT)
 - NetBackup PureDisk (NBU-PD)
 - Veritas Backup Reporter (VBR)
 - OpsCenter

#1 Leader in Backup und Recovery*

Market Share: Storage Management Software, 2012



Note: "Others" includes Quest, (3.0%), EVault (2.6%), Acronis (2.2%), CA (2.4%), Dell (1.1%), ASG (0.6%), BMC (0.2%) and other unnamed vendors (5.5%).

Source: *Market Share: Storage Management Software, Worldwide, 2012, Gartner (March 2013) , Based on WW Revenue for 2012



We make the world a safer place
by helping people, businesses, and governments
protect and manage their information, so they
can focus on achieving their goals.



Thank you!

Christian Uekermann

christian_uekermann@symantec.com

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