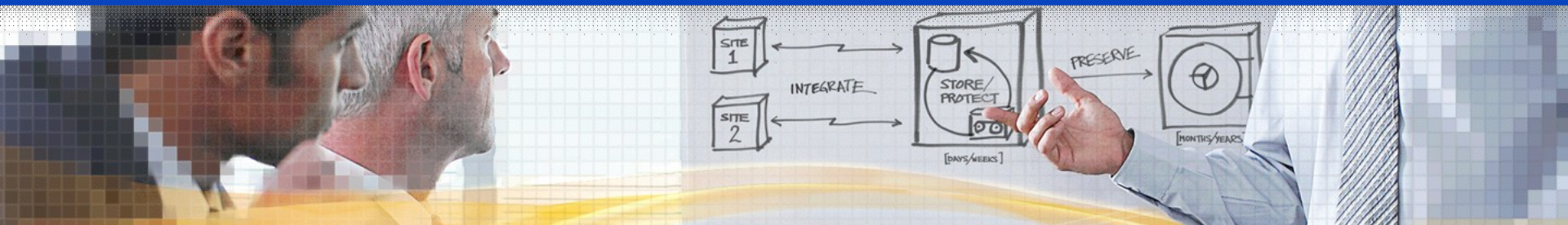


# Quantum®

BACKUP. RECOVERY. ARCHIVE.  
IT'S WHAT WE DO.™



Quantum®



# Next Generation Archival--StorNext

*Accelerate your business. Preserve your data.*

Quantum®



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# Herausforderung bei typischen Archiven

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- **Plattformübergreifende Architekturen**
  - Unix und Windows Daten Archivierung in einem System
    - ACL
    - SAMBA
- **Skalierbarkeit**
  - Skalierung von 50TB bis mehreren Petabyte
  - Anforderung an Cache - und Rechnersystemen
- **Multi-Site Architekturen**
  - Plattformübergreifende Einbindung von Aussenstellen in ein Archiv
- **Herstellerunabhängigkeit**
  - Fokus auf die Archiv Architektur anstatt auf Produkte
  - Archive müssen mit HW Änderungen arbeiten

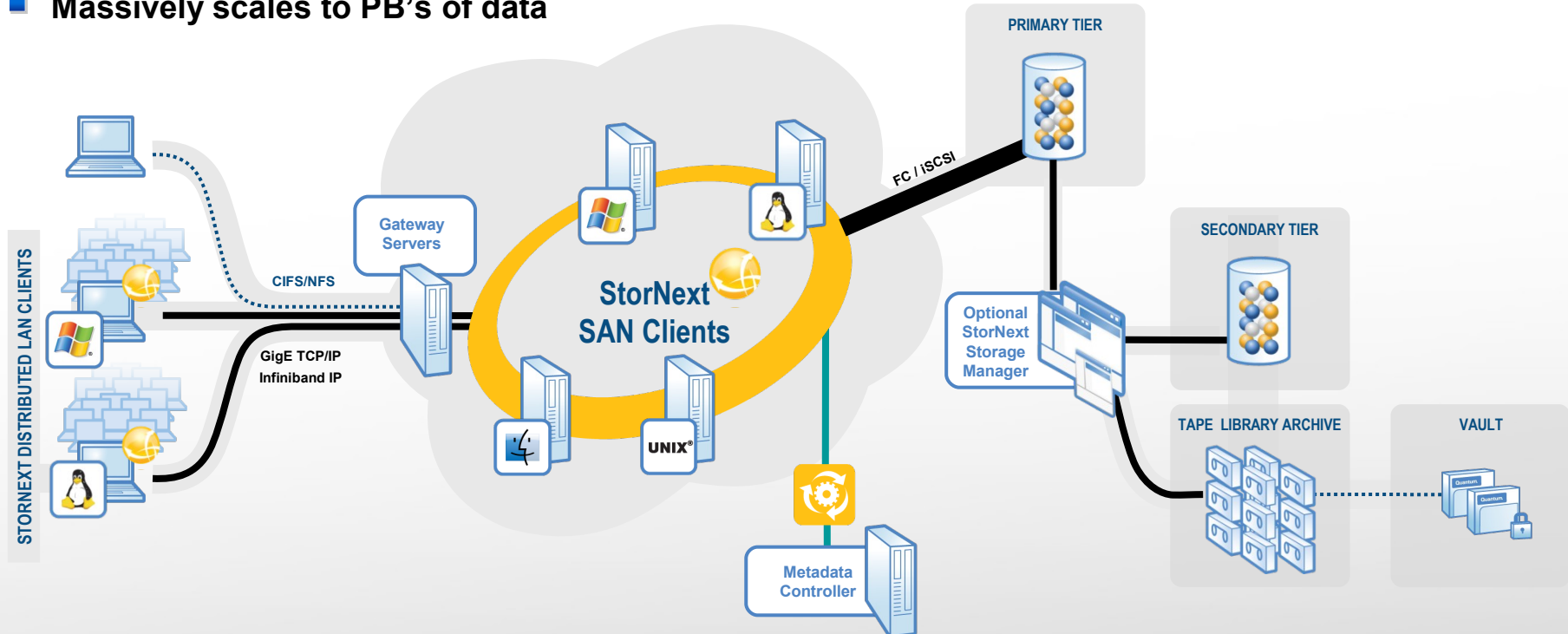
# Was ist StorNext ?

## StorNext File System

- SAN & LAN Clients: High-speed Fibre Channel (SAN) and NAS
- Shared File System: Operating System independent
- Independently scales to thousands of DLC nodes

## Storage Manager:

- Transparent data movement
- Tiered Storage & Archiving: Disk and Tape vendor agnostic
- Massively scales to PB's of data



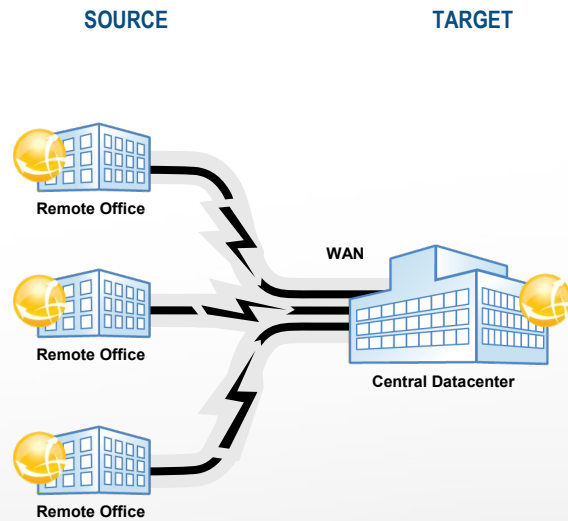
# Entwicklung der StorNext Produkte

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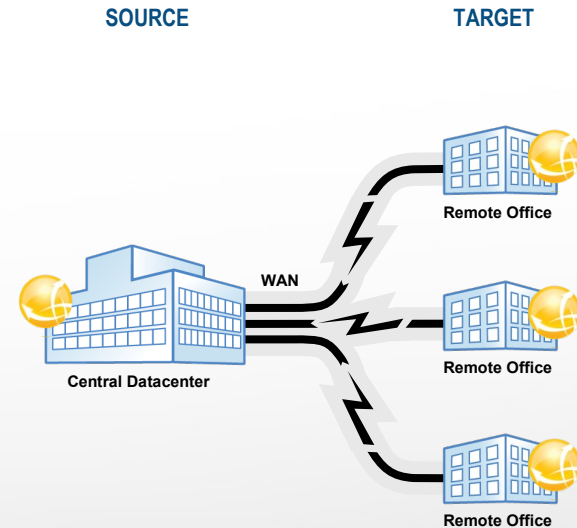
- StorNext 4.0 (Release April 2010)
  - Distributed Data Movers
  - Replication
  - Deduplication
  - New GUI
- StorNext 4.1 (Release December 2010)
  - Archive Conversion Utility

# Replikation eine Multi-site Anforderung

- Comprehensive Data Protection options
- Branch office protection solutions
- Consolidate for better storage & resource utilization
- Global distribution for greater workflows

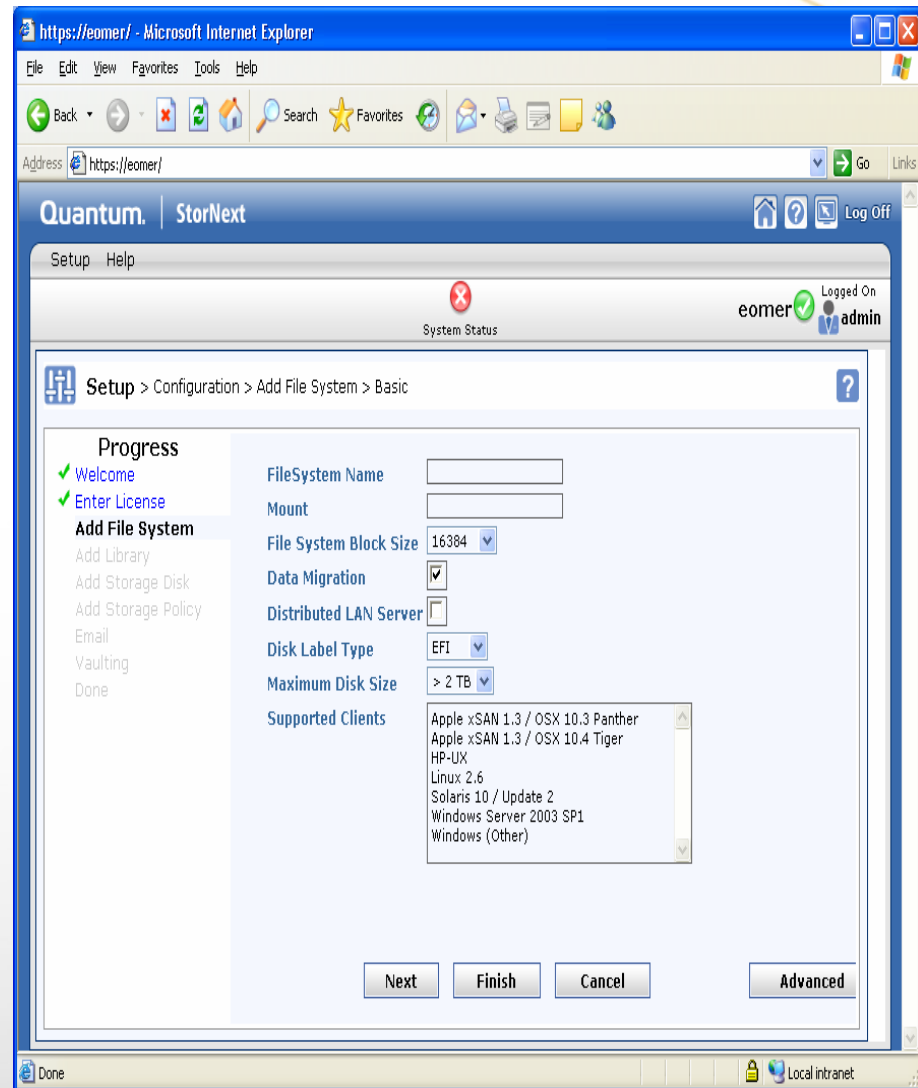
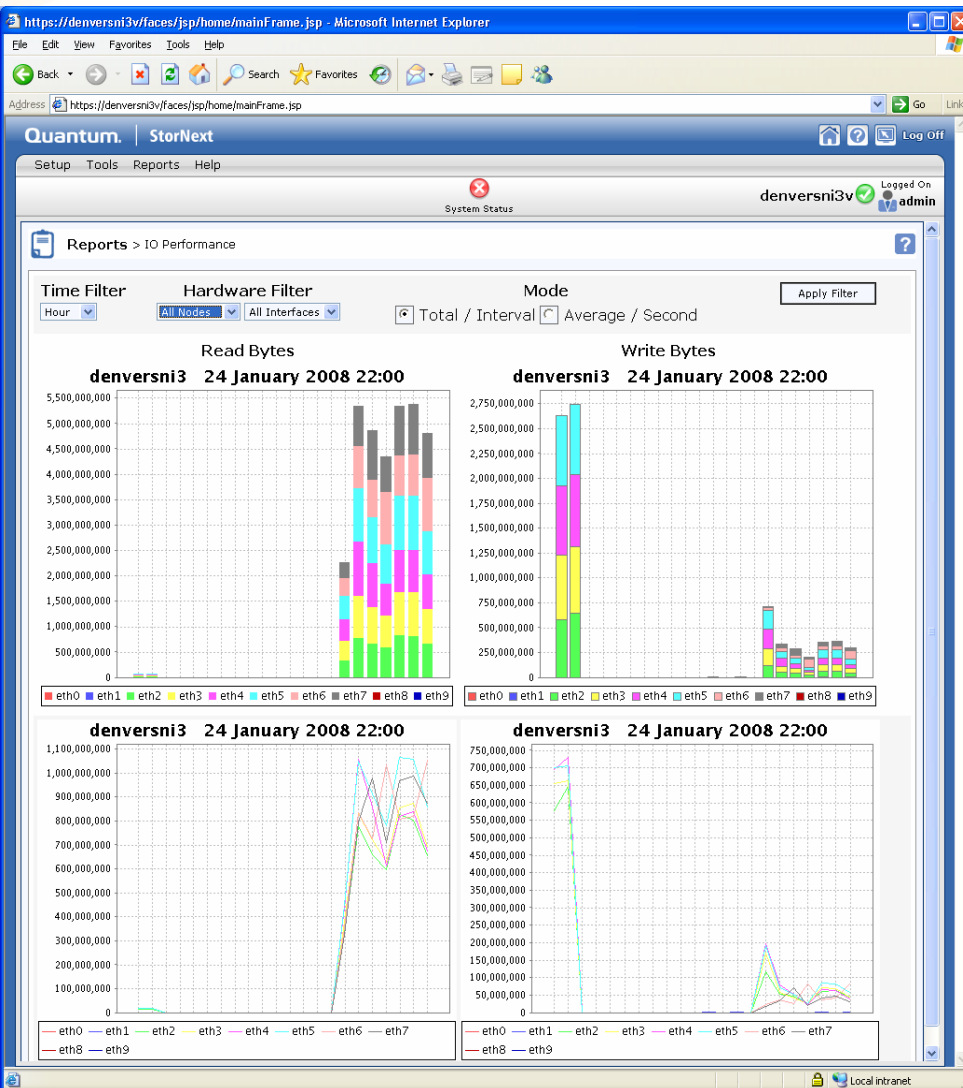


Data Protection



Data Distribution

# Management Console





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# Protecting Your Data Wherever it Resides

# Proactively Check Your Data Integrity

Extended Data Life Management (EDLM) protects your archive/DR data even after it leaves the library.

The screenshot shows the 'MeDIA Session Report' window. The main table lists media items with columns for Barcode, Session, Test Result, Drive ID, State, and Type. The 'Test Result' column uses color coding: Green for 'Good', Yellow for 'Suspect', and Red for 'Bad'. The 'Details' pane at the bottom shows scan status and analysis for the selected item (Barcode 000075L3).

Barcode	Session	Test Result	Drive ID	State	Type
000020L3	61	Good	HU173208K9	Completed	Normal Scan
000041L4	61	Good	HU173208K9	Completed	Normal Scan
000057L3	61	Good	HU173208KL	Completed	Normal Scan
000059L3	61	Good	HU173208KF	Completed	Normal Scan
000061L3	61	Good	HU173208KF	Completed	Normal Scan
000063L3	61	Good	HU19487U2VW	Completed	Normal Scan
000065L3	61	Suspect	HU173208KF	Completed	Normal Scan
000066L3	61	Good	HU173208KL	Completed	Normal Scan
000067L3	61	Good	HU19487U2VW	Completed	Normal Scan
000068L3	61	Good	HU173208KF	Completed	Normal Scan
000069L3	61	Good	HU17400EPB	Completed	Normal Scan
000070L4	61	Good	HU19487U2VW	Completed	Normal Scan
000071L3	61	Good	HU17400EPB	Completed	Normal Scan
000072L3	61	Good	HU17400EPF	Completed	Normal Scan
000073L3	61	Good	HU173208KL	Completed	Normal Scan
000074L3	61	Good	HU173208KF	Completed	Normal Scan
000075L3	61	Bad	HU173208K9	Completed	Normal Scan
000076L3	61	Good	HU173208KL	Completed	Normal Scan
000077L3	61	Good	HU173208K9	Completed	Normal Scan
000078L3	61	Good	HU17400EPF	Completed	Normal Scan
000078L4	61	Bad	HU17400EPF	Completed	Normal Scan
000079L3	61	Good	HU173208KF	Completed	Normal Scan

**Details**

CM Scan Status:  
Test completed

CM Scan Analysis:  
Good

Tape Scan Status:  
Test completed

Tape Scan Analysis:  
Un-recovered read errors on the tape

- Complementary to Advanced Reporting
  - For use with inactive cartridges
- Checks completed in a library managed partition
  - No impacts to operations
  - Managed in background
- Three levels of scanning
  - Quick Scan
  - Normal Scan
  - Full Scan
- Intuitive reports with detail
- Supports LTO-2 thru LTO-5 media
- **Ensures archived data is available when needed!**

# EDLM in a StorNext Storage Manager Environment (CQ2-CQ3)

1

User sets EDLM policy on Scalar i6000:  
✓ “Scan all tapes in archive once every 6 months”  
✓ “Notify StorNext of results”

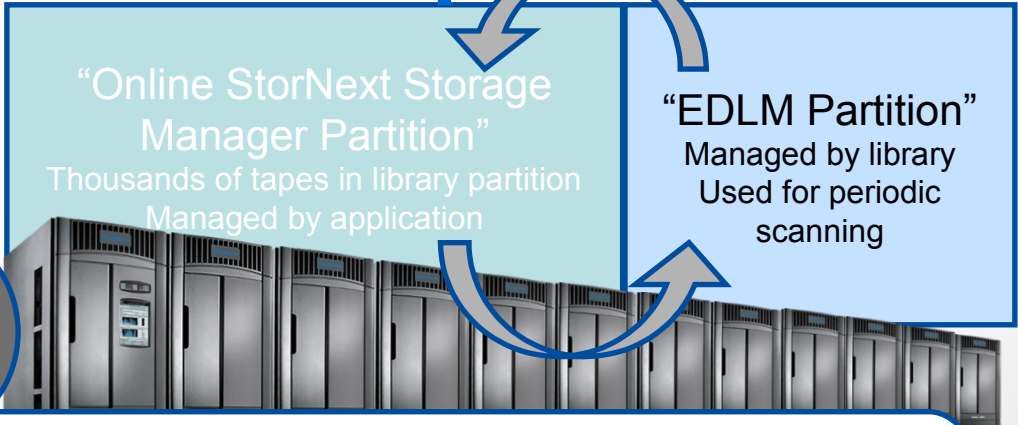
StorNext Storage Manager



3

✓ Storage Manager migrates data, updates the database to indicate file location on new tape

2



“Online StorNext Storage Manager Partition”  
Thousands of tapes in library partition  
Managed by application

“EDLM Partition”  
Managed by library  
Used for periodic scanning

✓ Library manages data integrity checking in the background based on policy, produces results  
✓ For suspect tapes, requests that StorNext migrate data to new tape

