

STORNEXT



Accelerate your business. Preserve your data.

06 October, 2010

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ARCHIVAL BUSINESS CHALLENGES

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Is Your Department...



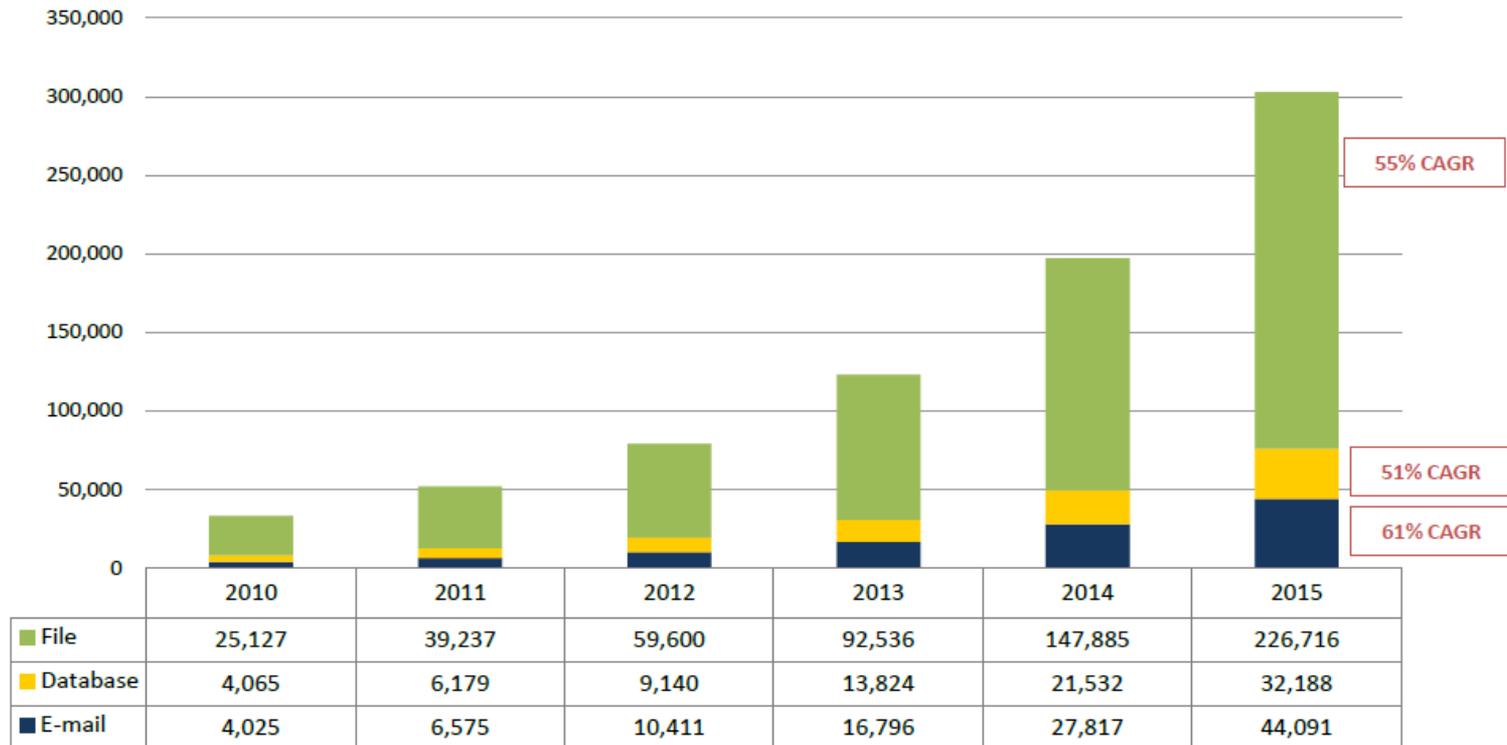
Drowning in a sea of data?

Struggling to navigate through a demanding workflow?

Unstructured FILE Data Growth

- Over committing storage infrastructure & budget
- Management nightmare

Total Worldwide Digital Archive Capacity, by Content Type, 2010-2015 (Petabytes)



Source: Enterprise Strategy Group, 2010.

Demanding Workflows

- Budget constraints
- Long term data retention
- Ballooning storage costs
- Protection of data
- It will only get worse – data will continue to grow !



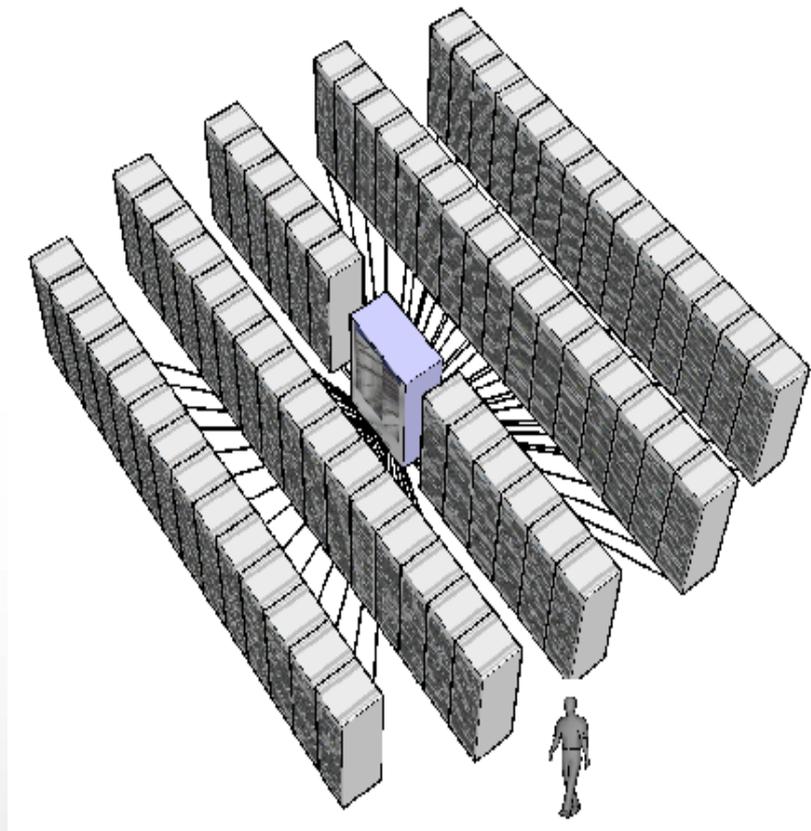
Customer Pain-Points: Archiving

- Data ownership – who owns what and their SLA?
- Data retention – how long to keep it?
- Compliance and regulations – what are my obligations?
- Economical data storage – Storing important data without excessive cost - tangible and intangible
- Data integrity and protection
- Access from disparate teams - Cloud



Customer Pain Point: Massive Scalability

- Scalable architecture – unlimited storage capacity, no HW constraints
 - Archives for years or decades?
- Vendor agnostic – leverage new technologies and existing investment
- Reducing technical refresh and or component replacement = very painful



Spinning verses Non-Spinning

Disk

- Faster access time
- Comfort
 - User are comfortable with disk interfaces and I/O
- Larger disks = ability to build large storage pools

Tape

- Slower access time
- Less comfort:
 - Removable, requires automation and software
- LTO-5 and LTFS extending the archival range of tape

Cooling and Power

Cooling

- HVAC impacting data centers
- Faster and more processors consuming more cooling
- Larger Storage systems require more HVAC

How to manage data growth without impacting HVAC capacity?

Power

- Large HPC systems consume loads of power
- Large disk storage systems consumes power with or without data I/O

Can reduction in utility costs decreased overall budgets?

Long term technology refresh

- Vendor lock-in
- Ease of migration from one storage technology to another
- Responding to regulatory or internal archival requirements
- Difficulty in retiring old storage technology
 - How to migrate 2PB off disk to new storage?
 - Every 5-7 years

THE STORNEXT SOLUTION

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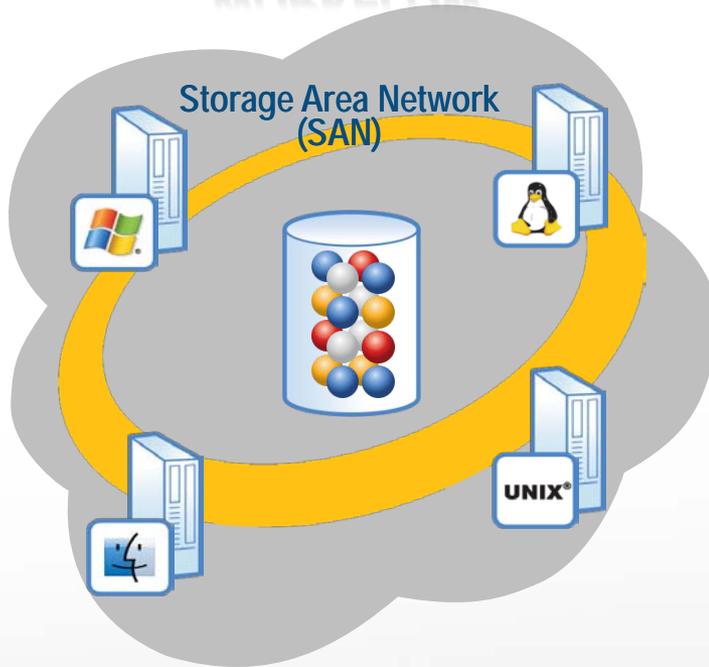
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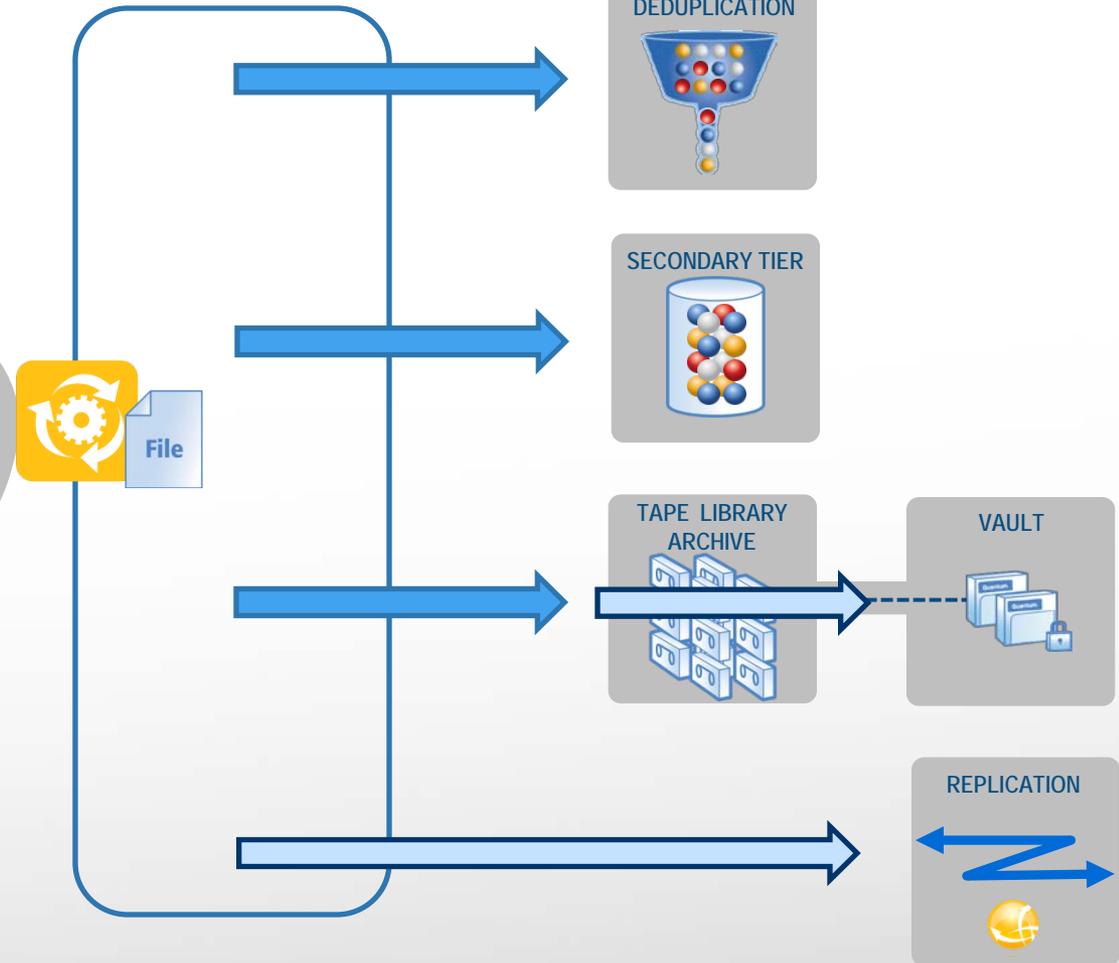
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Workflow with Advanced Management

HIGH-PERFORMANCE SHARED WORKFLOW



POLICY-BASED DATA MANAGEMENT



Quantum's Comprehensive Portfolio

Quantum continues to invest and innovate across the portfolio

StorNext Software



DXi-Series



Scalar Series w/iLayer



Vision Storage Management Tools



Professional Services & Global Support

Shared File System

VTL, NAS, iSCSI

Disk

Tape

Key Management

Data deduplication

Replication

Encryption

Tiered Storage Policies

Proactive Diagnostics

Centralized Management



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