

Information Lifecycle Management and Database Archiving

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Today's Agenda

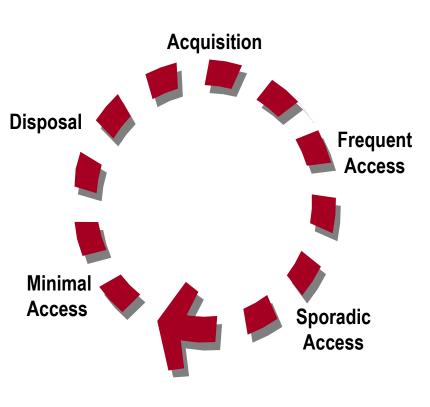
- ILM Concepts
 - What is ILM?
 - What factors are driving ILM?
 - How is ILM is accomplished?
- Database Archiving in ILM
 - Current Approaches
 - Alternative: Active Archive Solutions
 - Automated Data Management and Storage Optimization

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Information Lifecycle Management

- All data has a lifecycle from acquisition through disposal
- Parameters differ over time
 - Retention Requirements
 - Access Requirements
 - Business value
- Store and manage accordingly





What's Driving ILM?

- Data Growth
 - Business Imperatives
 - Compliance
- Infrastructure ROI
 - Cost Savings
 - Resource Optimization





Database Growth Causing Problems



Business Operations Risk

- Compliance to new regulations
- Longer work cycles
- Disaster Recovery process



Business Service Levels Missed

- Longer response times
- Decreased productivity
- Frustrated customers



Skyrocketing IT Costs

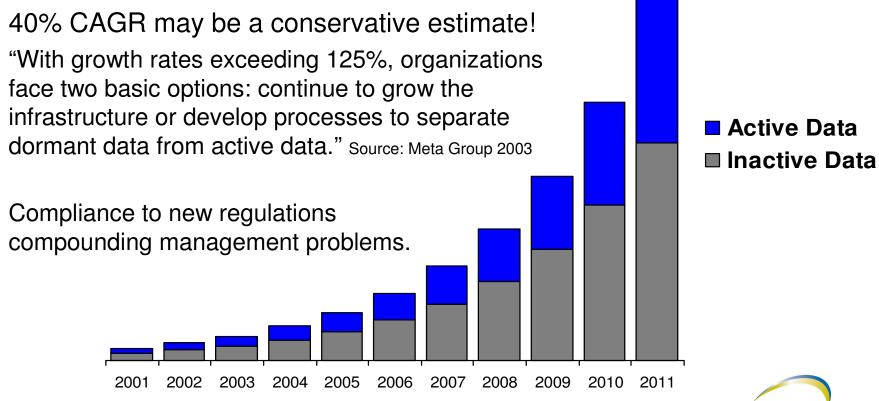
- Hardware upgrades
- Software upgrades
- Opportunity costs



Database Growth Must Be Managed

"...databases will grow 30x during the next decade, or roughly 40% annually."

Source: Meta Group



Regulations Require Data Retention Policies

- Increased data retention regulations in industries such as financial services, healthcare, telecommunications, life sciences, and government.
- Highly visible in the United States and now a global issue
- Trend is more regulations across more industries across more geographies...



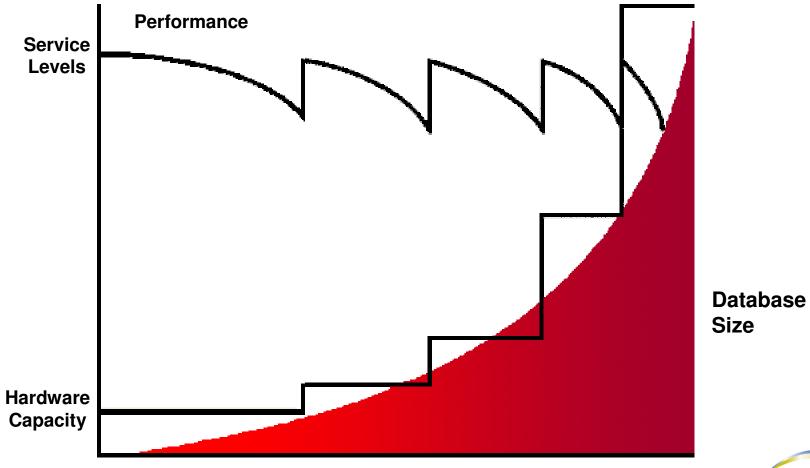






Bottom line: Data retention regulations are increasing the risk and also the value of information

Data Explosion



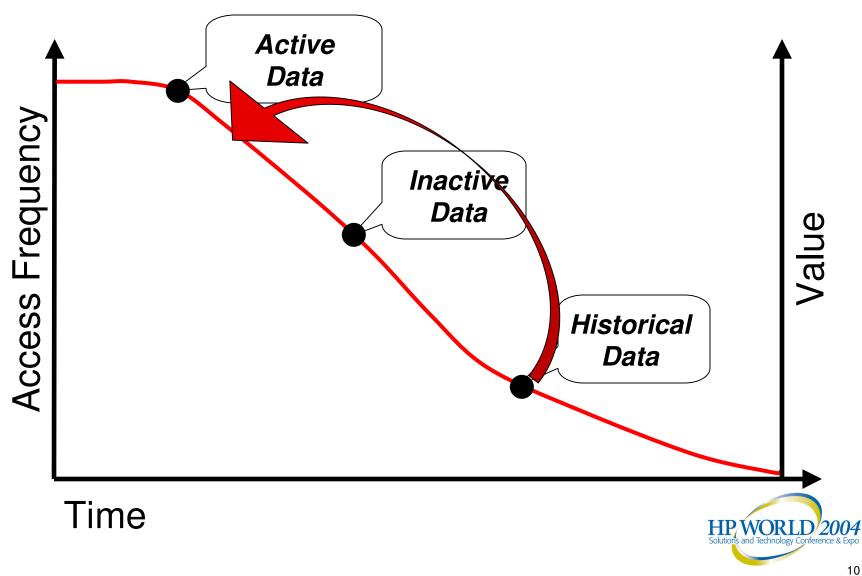


How is ILM Accomplished?

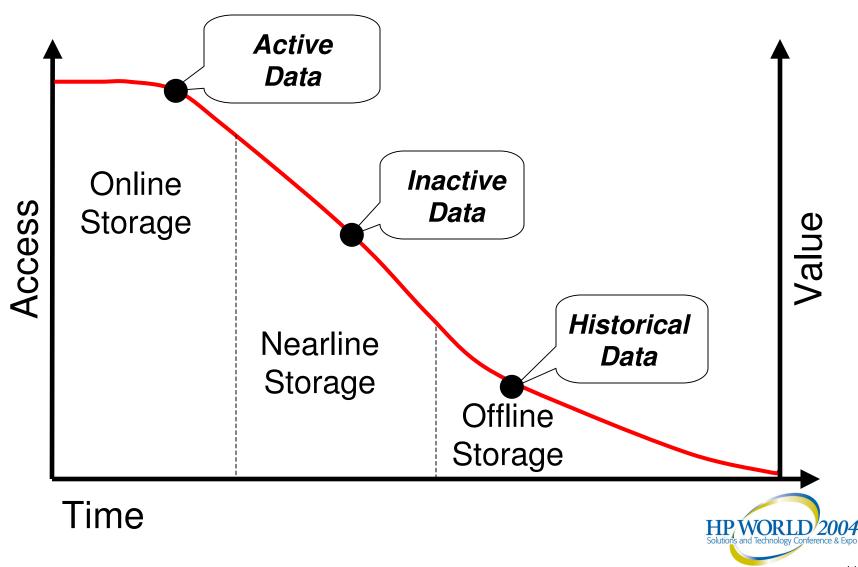
- Assess enterprise data
 - Business needs
 - Retention requirements
 - Access requirements
- Derive business "value"
- Define storage strategies
- Set (then automate) migration policies



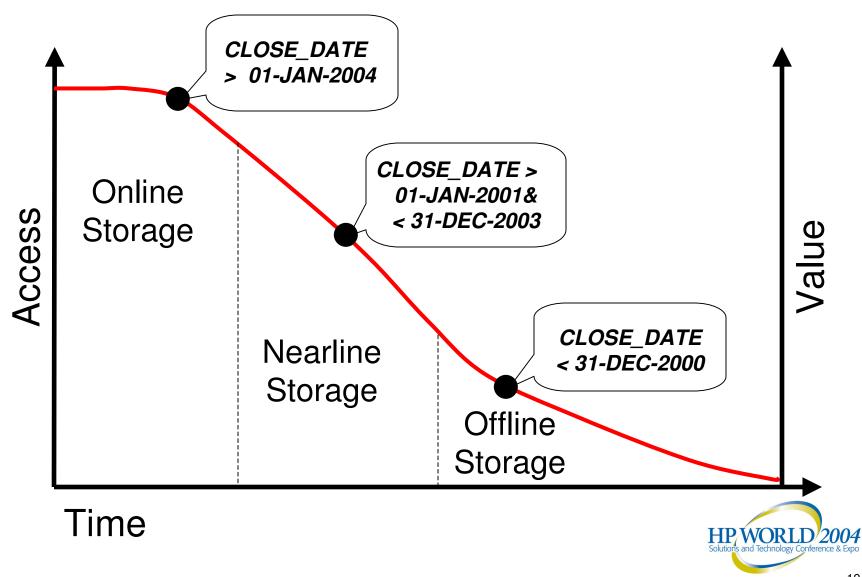
Evolving Business Value



Align Storage Costs with Information Value



Set Migration Policies



Traditional Approaches

Add More Capacity

- Bottom line impact
- Uncontrolled continuous cost

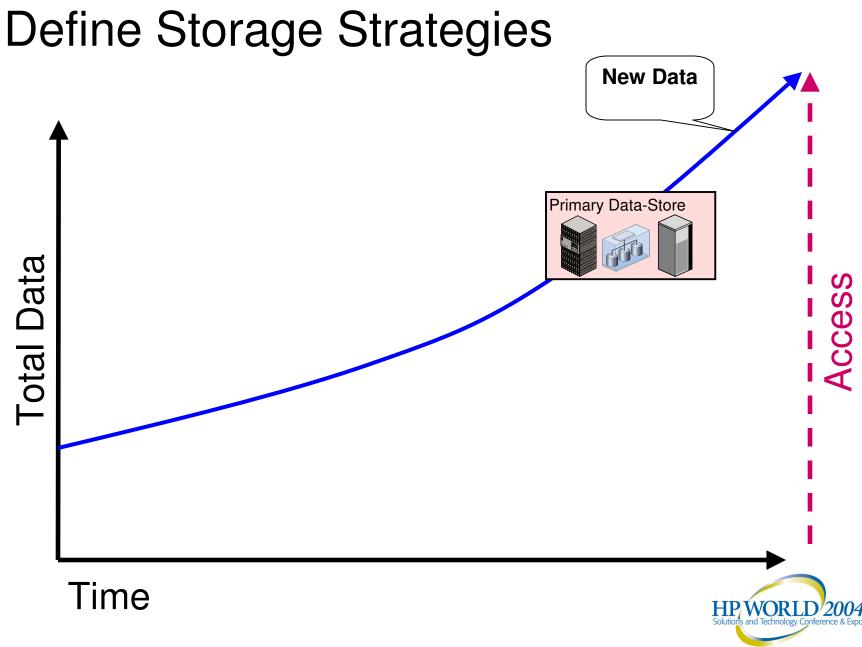
Delete Data

Legal and retention issues

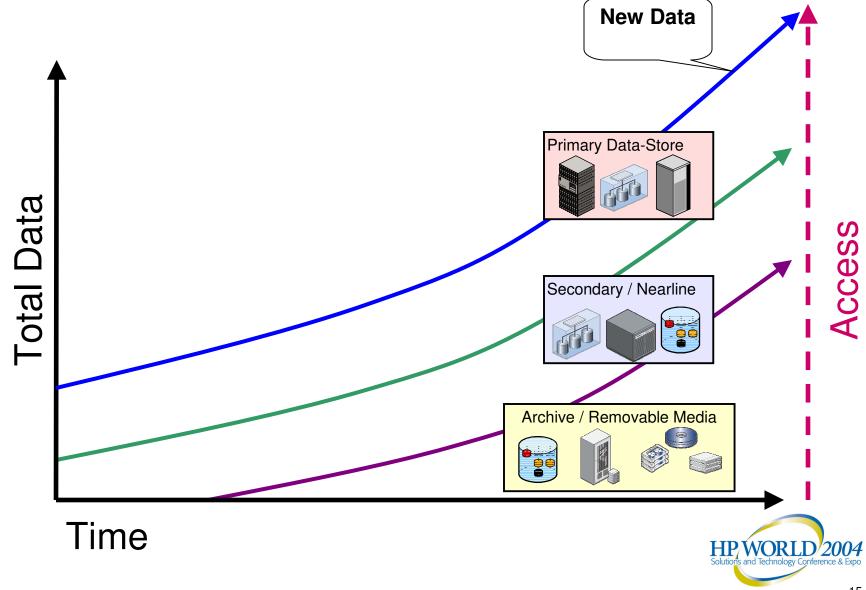
In-house Development

- Complex undertaking
- Application specific
- Support / upgrade / maintenance / opportunity cost

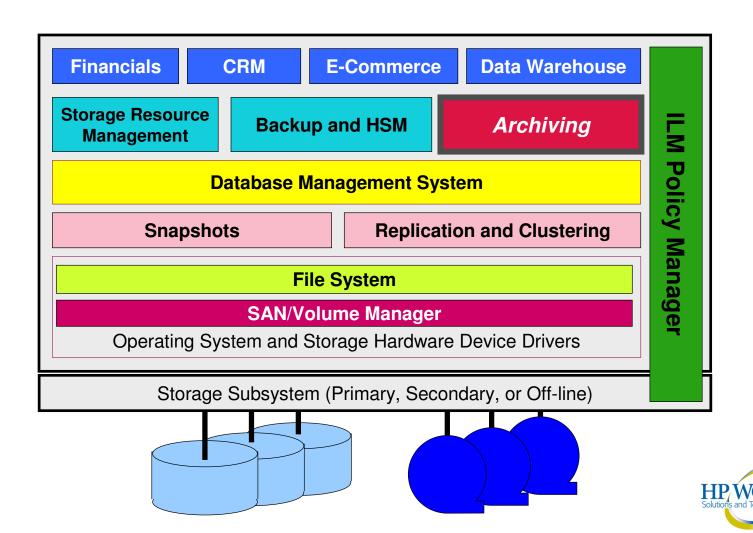




Align Storage Costs with Information Value



Database Archiving Key Part of an ILM Solution



How Does Database Archiving Fit In?

- Streamline application database
 - Remove infrequently used data
 - Archive relational subsets
 - Maintain business context
- Maintain access to archived information
 - View, research, restore
 - Comply with retention requirements
- Store archived data cost-effectively
 - Migrate to lower-cost tiers based on business value

Who Needs Database Archiving?

- Companies processing high volumes of online transactions:
 - ERP, CRM, SCM applications
 - eCommerce & customer facing applications
- Companies which need to comply with record retention regulations:
 - Healthcare HIPAA
 - Pharmaceutical 21 CFR 11
 - Basel II
 - Sarbanes-Oxley Act
 - Financial IRS and SEC Rule 17a-4
- Companies needing to enhance their disaster recovery capability:
 - Active archiving reduces data volume less data to recover
 - Recover mission-critical data first and rarely used data later





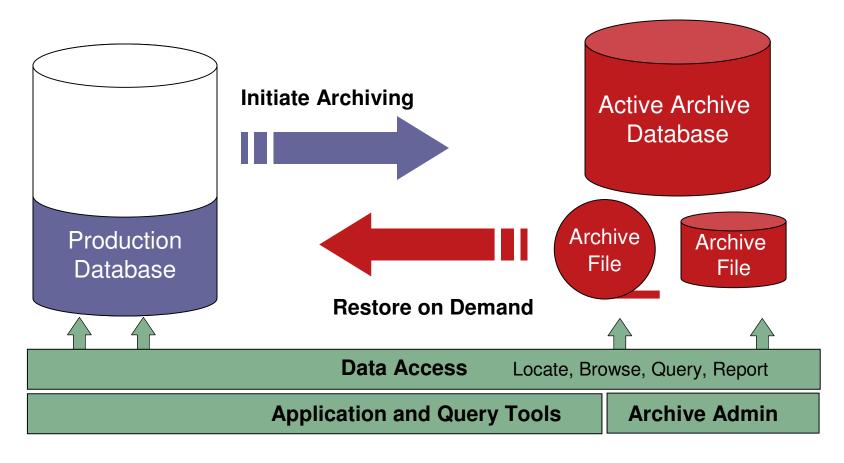


Benefits of Database Archiving

- Improve application performance and availability
 - Optimize transaction and query processing
 - Speed upgrades
- Ensure appropriate access to data
 - Customer inquiries
 - Internal audit
 - Compliance requests
- Lower total cost of ownership (TCO)
 - Applications
 - Databases
 - Storage infrastructure

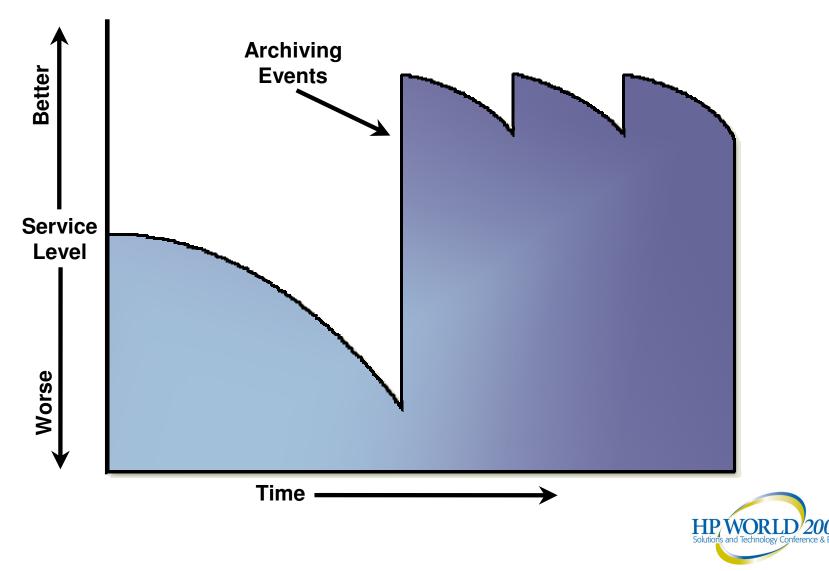


Princeton Softech's Active Archive Solutions





Performance and Availability Benefits

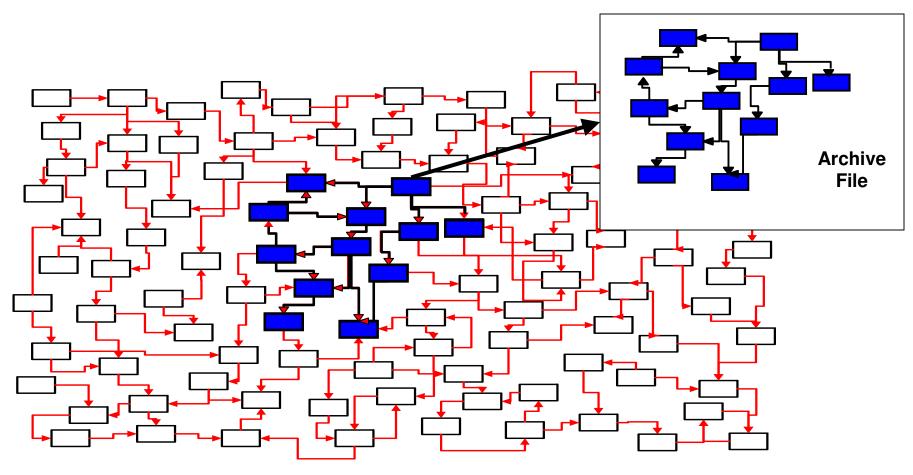


Solution Requirements

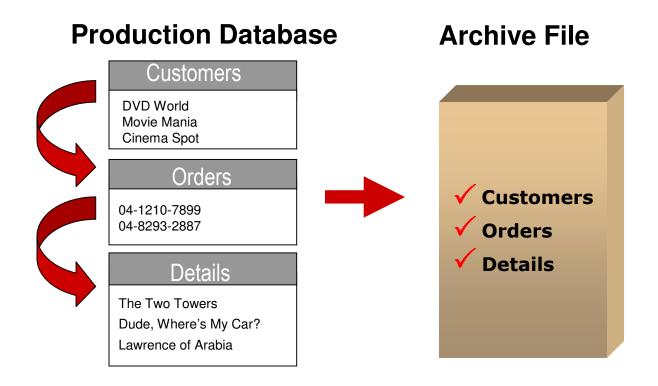
- Archive referentially intact subsets of application data
- Selectively delete inactive data from production
- Locate and browse archived data
- Selectively restore data
- Store data on cost-effective media
- Automate migration of Archive Files
- Provide scalable, enterprise support



Ensure Referential Integrity



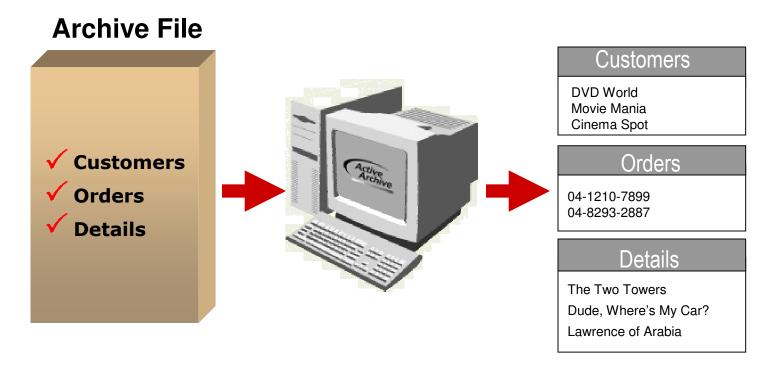
Delete Inactive Data from Production



- Immediate or deferred delete
- Specifications define which data to delete
 - Can differ from Archive criteria



Browse Archived Data



- Browse Archive Files
- JOIN to view related archive data
- Create hardcopy reports



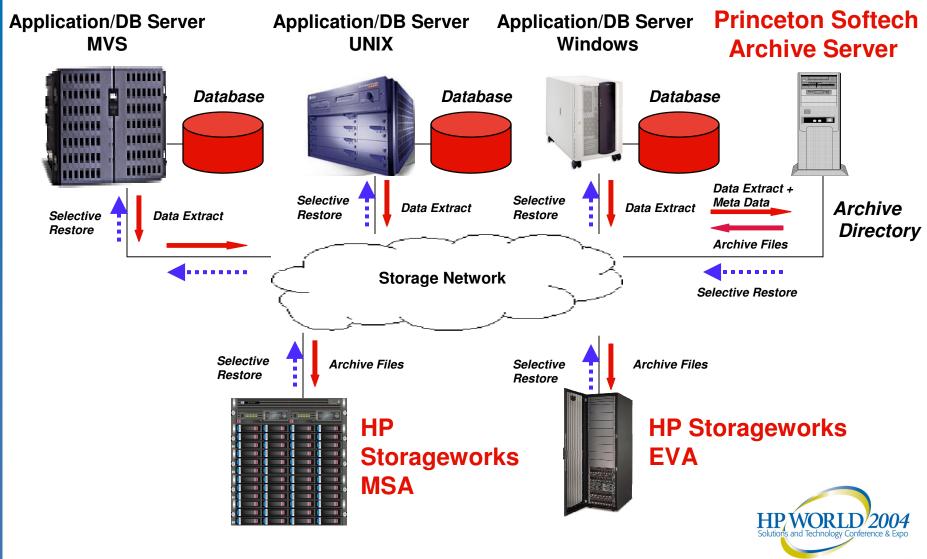
Selectively Restore Archived Data

Production Database Prod DB <u>Customers</u> **Archive File** Insert / DVD World Movie Mania Cinema Spot **DVD World Update** Movie Mania Orders Cinema Spot 04-1210-7899 Orders Details **Customers** 04-1210-7899 The Two Towers Dude, Where's My Car? 04-8293-2887 **Orders** Lawrence of Arabia Details **Details** Staging DB The Two Towers Load Dude, Where's My Car? DVD World Movie Mania Cinema Spot Lawrence of Arabia Orders 04-1210-7899 04-8293-2887 Full or selective restore Details The Two Towers Choose destination environment Dude, Where's My Car? Lawrence of Arabia

Accommodate data model or DB version.

changes

Princeton Softech – HP Integrated Solutions



Princeton Softech at a Glance

Our Company

- A leader in Global Enterprise Data Management software solutions since 1989
- Market leader in Database Archiving: 56% market share (Gartner Group)
- Over 2100 customers in 30+ countries
- > Focus on the Global 2000
- Global Sales, Support and PS organization
- Headquartered in Princeton, NJ.
- > 200 employees

Issues Addressed

- Unmanaged growth of critical application reference data residing in production database environments
- While required for longterm retention, active reference data is not required for day-to-day operations
- Provide a single enterprise-wide archiving platform to address longterm data accessibility and compliance needs

Solutions/Benefits

- Database Archiving:
 - Archives production data to lower cost environment
 - Supports all databases and all applications
 - Provides easy data
 accessibility with complete
 business context
- Benefits:
 - Improves application performance and availability
 - Reduce TCO of production environment



Scalable, Enterprise Capabilities

Databases Supported:

- Oracle, Sybase, SQL Server, UDB, Informix, DB2
- Complete heterogeneous interoperability

Platforms Supported:

- UNIX, Windows, OS/390

Active Archiving Solutions:

- ArchiveTM for DB2
- ArchiveTM for Servers
- Archive[™] for Servers ClarifyCRM[™] Edition
- Archive[™] for Servers PeopleSoft® Edition
- ArchiveTM for Servers Oracle® Applications Edition
- Others TBA



Active Archive Success Story Examples

- Bank of New York
 - Saved over \$50,000 per month
 - Reduced resource consumption by 20%
- Volt Information Sciences
 - PeopleSoft upgrade time reduced from 140 to less than 50 hours
 - Improve performance on average by 50%
- Tier 1 Large Computer Manufacturer
 - Reduce disaster recovery time from 48 to less than 10 hours

Active Archive Success Story Examples

- Bausch & Lomb
 - Improved PeopleSoft performance by 50%
- Norwich Union
 - Improved transaction response time by up to 50%
 - Reduce costs by 15%
 - Eliminate costs through application decommission
- AXA Insurance -
 - Reduce operating costs
 - Standardized solution
 - Consistent application performance



Benefits Summary



Improved Availability

- Faster batch cycles
- Ready for business
- Increased sales



Improved Performance

- Faster response times
- Increased productivity
- Satisfied customers



Cost Containment

- Optimize storage utilization
- Postpone hardware upgrades
- Execute ILM strategy



Thank You

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