

Le soluzioni IBM per l'Information Lifecycle Management



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Information management and storage challenges are impacting the ability to optimize information value

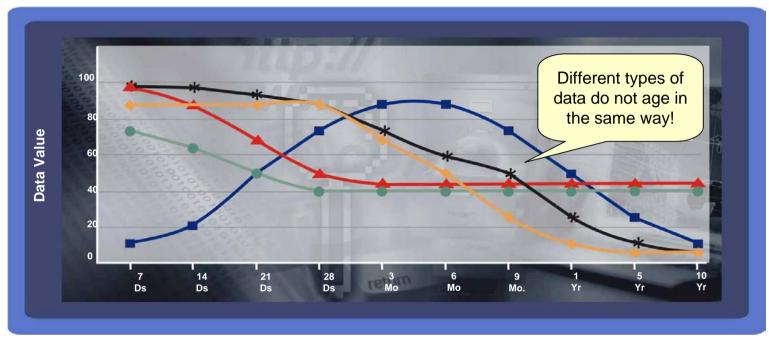
- Surge in criticality, value and volume of data -- outpacing IT's ability to collect, store and manage it by traditional means
- Excessive storage costs and missed service level objectives
- Compliance with regulatory requirements and audit procedures
- Ability to effectively access and gain insight from information once stored



- Storage now accounts for >15% of total IT budgets
- Data growth is now estimated at >25-50% annually
- Effective disk utilization is <50%, with 20-40% wasted space
- There are over 20,000 regulations worldwide

Four Fundamental Truths About Data - A Basis for ILM





- All data, when created, does not have equal value
- Data changes in business value and in service level requirements over time
- IT resources should be allocated according to the value of data
- Data must be managed and leveraged effectively throughout its entire lifespan ... data outlives media

Our clients typically define specific objectives to support and improve their information management and storage environments

•Reduce Cost and Simplify

- Controlling demand for storage
- Improving asset utilization
- Reducing hardware / software / storage personnel costs
- Reducing data migration effort

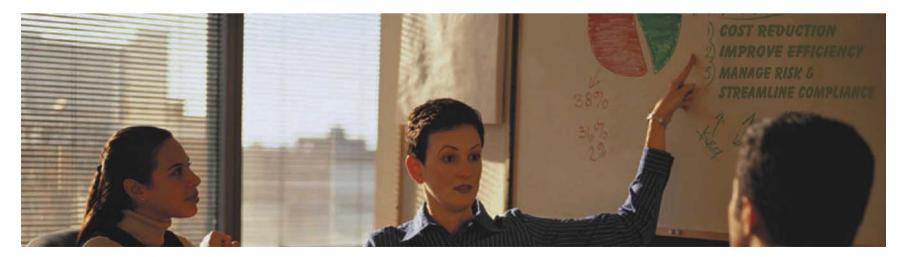
Improve Efficiency

- Maximizing and sustaining efficiency by improving the current people, processes, and technologies being utilized to deliver storage services to the business
- Defining and implementing the appropriate storage strategy to address current and future business requirements
- Enhancing systems/Email performance
- Making better use of existing information and assets

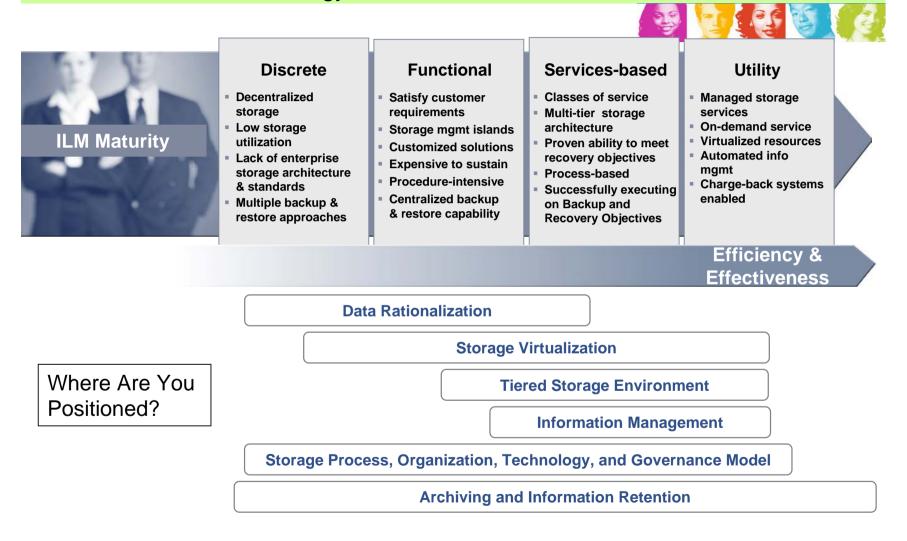


•Manage Risk and Streamline Compliance

- Reducing organizational risk
- Complying with governmental regulations

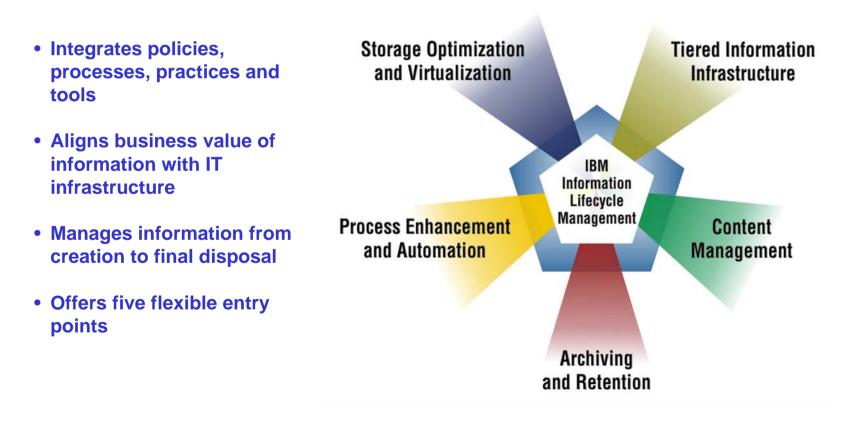


Deploying these best practices and moving to an enhanced storage environment and ILM strategy is an incremental evolution



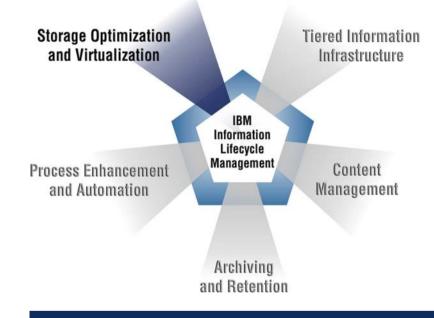
The IBM offering portfolio offers a flexible approach to implementing ILM based on customers' tactical and long term business needs





Storage Optimization and Virtualization

- Customer Objective
 - Reduce Cost and Simplify
- Tactics
 - Reclaim/consolidate storage space
 - Identify initial storage management inefficiencies
 - Combine heterogeneous physical storage capacity from multiple disk and tape devices into logical pools for centralized management
 - Accelerate data migration
 - Increase storage infrastructure utilization
 - Enable changes to the physical storage with minimal or no application disruption
 - Simplify management



Sample Offerings

- Storage Virtualization for Storage Management Planning & Design
- SAN Volume Controller (SVC)
- TotalStorage Productivity Center

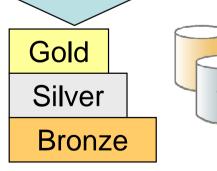
IBM SAN Volume Controller (SVC)



Hosts see thousands of disks

- One device type
- One multipathing driver
- One management interface

SAN Volume Controller

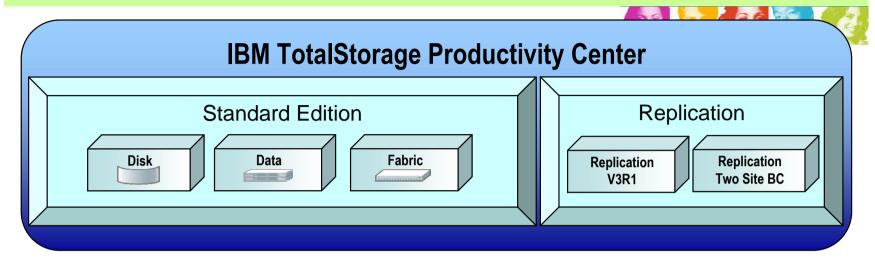


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Disks from different vendors

- Different device types
- Different multipathing drivers
- Different management interfaces

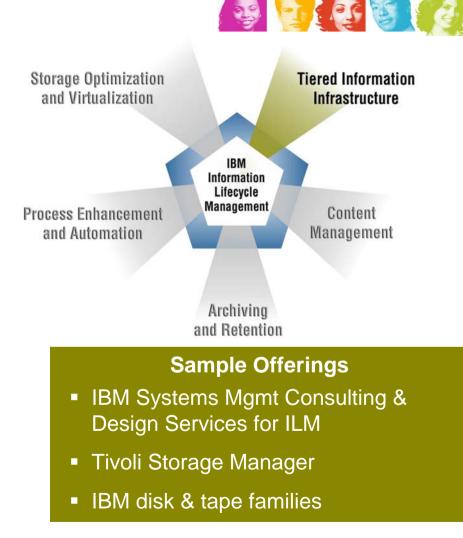
Value of IBM TotalStorage Productivity Center



- Enable end-to-end storage management with a single tool
 - Extends storage configuration management across the SAN
 - Centralizes management of storage
- Improve storage utilization, performance and service levels
 - SAN Topology end to end views and management
- Reduce storage complexity to make your team more productive
 - Storage Reporting across host file systems, data bases and storage
 - Correlation to host usage
- Ties to Tivoli Storage Manager and ITSM for complete information life cycle management

Tiered Information Infrastructure

- Customer Objectives
 - Reduce Costs and Simplify
 - Improve Efficiency
- Tactics
 - Create a robust storage governance model which defines target service levels, policies, organization, processes and architectures
 - Classify and manage information
 - Leverage tiered storage environments
 - Align variable cost hardware with information classes and service levels

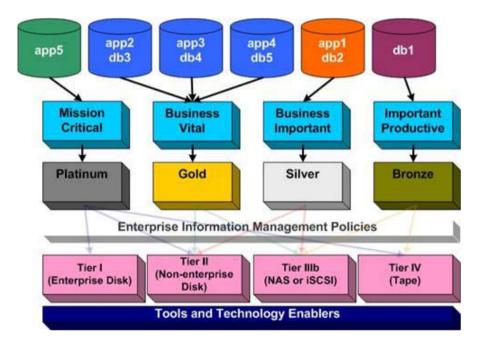




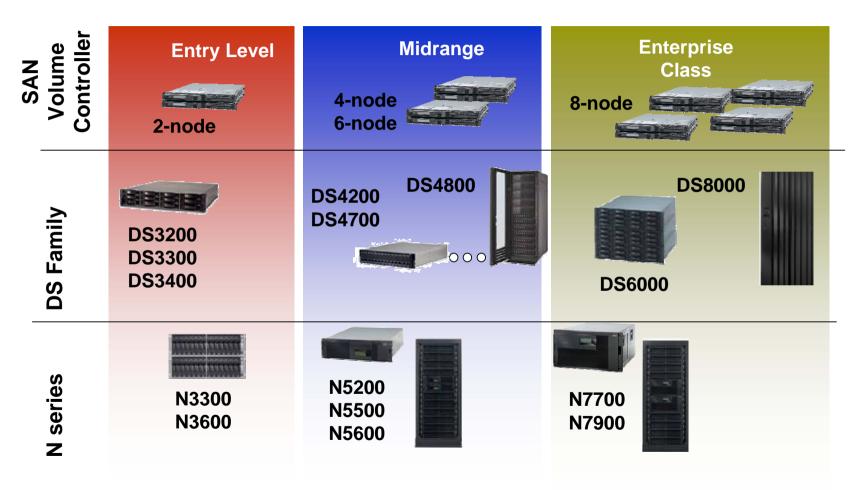
A tiered information environment aligns variable cost hardware types with Information Classes and Classes of Service to create a variable cost storage environment

Best Practices

- Align information with business requirements to accelerate movement of data off of enterprise tiers where it can be more cost efficiently stored and managed at the appropriate service level
- 2. Define variable cost technology types with corresponding information management policies
- 3. Establish well differentiated storage tiers and classes of service for greatest cost savings
 - Leverage Tape
 - Consider more than just hardware characteristics

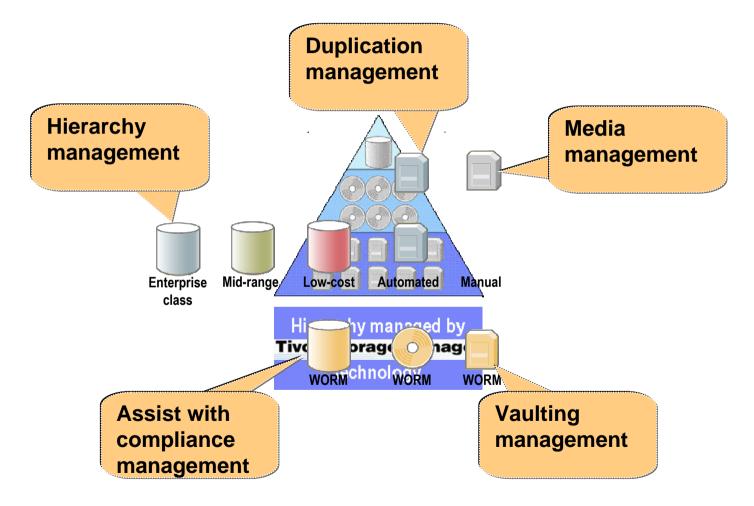






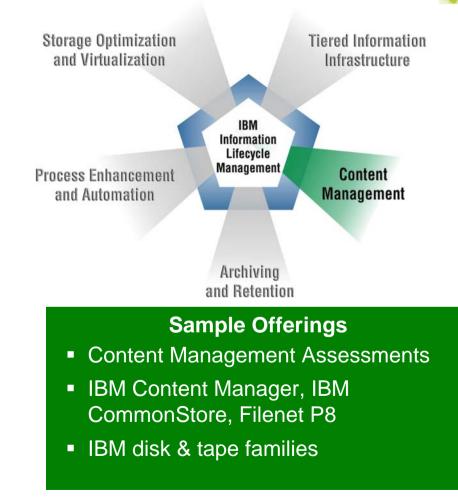
Construct a Variable Cost Hierarchy of Storage





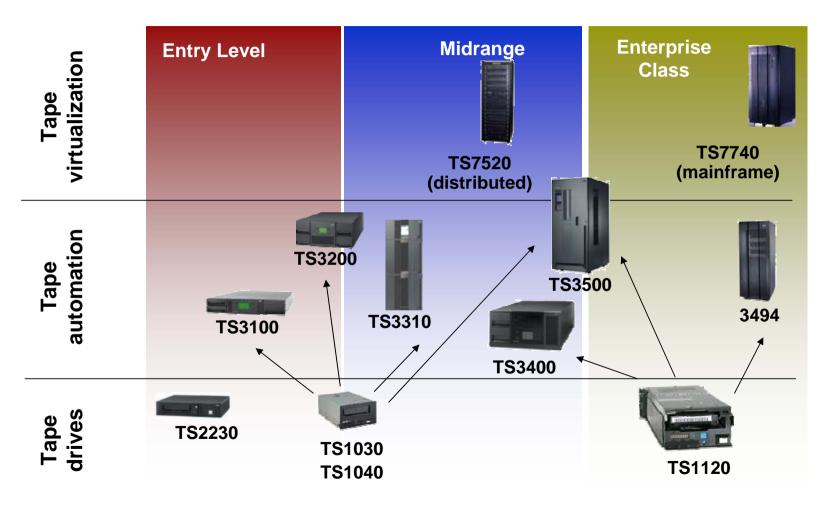
Content Management

- Customer Objectives
 - Improve Efficiency
 - Manage Risk and Streamline Compliance
- Tactics
 - Reduce or eliminate paper handling to improve efficiency of business tasks
 - Improve ability to access and gain insight from information once stored
 - Link knowledge of business information to policies to drive data movement within storage tiers
 - Implement and enforce retention periods for compliance



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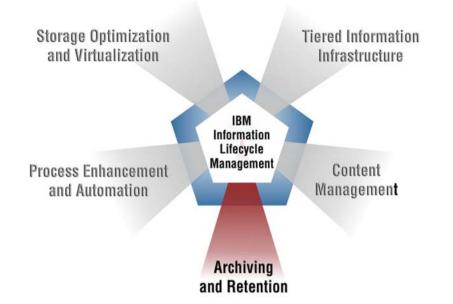


Archiving and Retention

- Customer Objectives
 - Reduce Costs and Simplify
 - Reduce Risk and Streamline Compliance

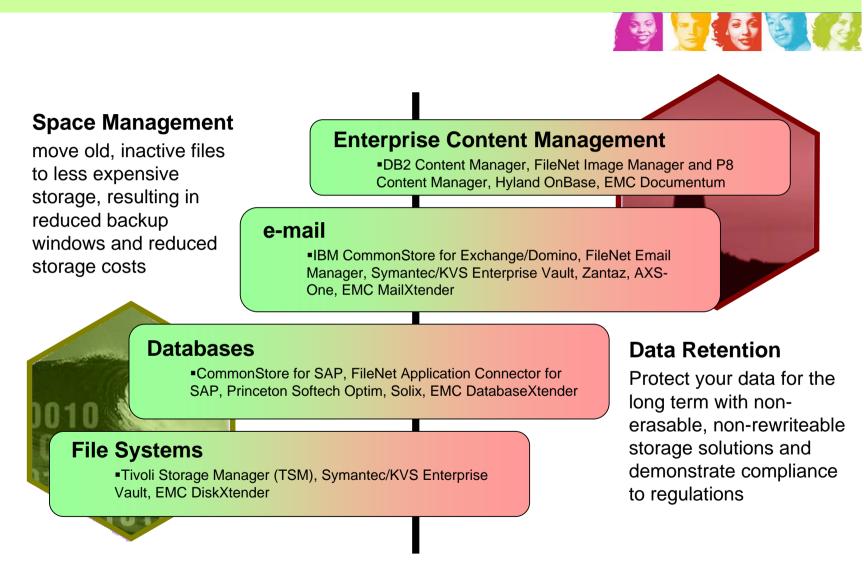
Tactics

- Implement and enforce retention policies
- Leverage lower cost tiered storage environments
 - Dynamically place and move information according to its changing value and service level
- Address compliance requirements by protecting information held in nonerasable, non-writable storage
- Improve infrastructure performance by reducing production pool size



Sample Offerings

- Archival and Retention Assessment Planning, Design, and Implementation
- IBM Content Manager, CommonStore, Filenet P8 email Manager,...
- IBM System Storage DR550, N series



Comply with regulatory and security requirements





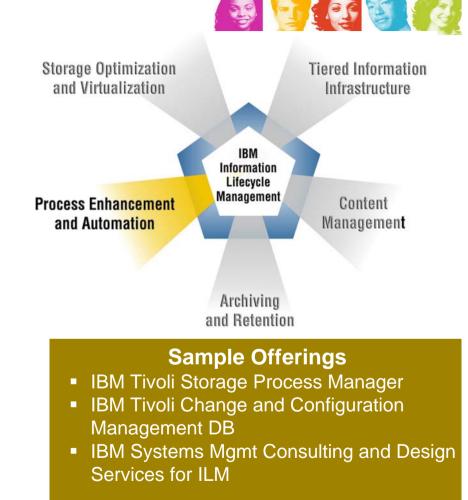
- 1. Non-erasable, Non-rewriteable storage for data retention and regulatory compliance requirements
 - WORM tape media (LTO and 3592)
 - DR550 disk-and-tape storage virtualization
 - N series with SnapLock[™] Compliance and SnapLock[™]
 - Grid Medical Archive Solution (GMAS)

2. Industry-standard encryption for disk and tape data

- Industry's first encrypted tape drive: TS1120
- LTO-4 Encrypting tape drive
- DR550 and DR550 Express offerings
- System Storage Archive Manager
- Tivoli Storage Manager

Process Enhancement and Automation

- Customer Objective
 Improve Efficiency
- Tactics
 - Improve efficiency by implementing out-of-the box automated storage processes for change, configuration and Incident management.
 - Improve effectiveness by managing storage as an IT service with customizable ITIL aligned storage processes.
 - Leverage existing investment in existing storage management tools
 - Support of compliance and governance by providing storage processes related audit reports



IBM System Storage - Strategy Intelligent Management. Protected Information. Smarter Insights.

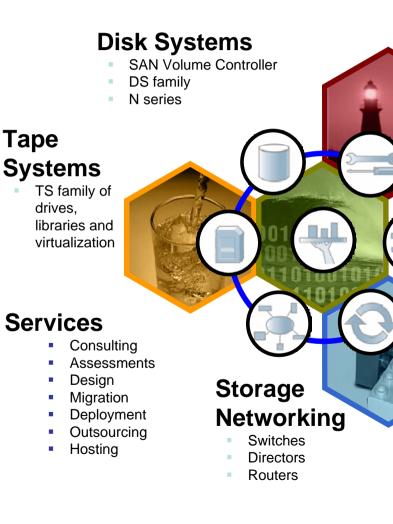


Leverage Information Mitigate Risk Capitalize on data sharing for collaboration ✓ Address regulatory, security requirements Align storage investment, information value ✓ Keep your business running continuously **Optimize IT Enable Business Flexibility** Automate and Simplify IT operations ✓ Flexible, On Demand IT infrastructure ✓ Optimize Performance, Functionality ✓ Protect your IT investment

Get the most value from your information

IBM System Storage – Offering Matrix Intelligent Management. Protected Information. Smarter Insights.





Infrastructure Management

- TotalStorage Productivity Center
- SAN Fabric Management software
- Tivoli Provisioning Manager
- Tivoli Storage Process Manager
- IBM Systems Director family

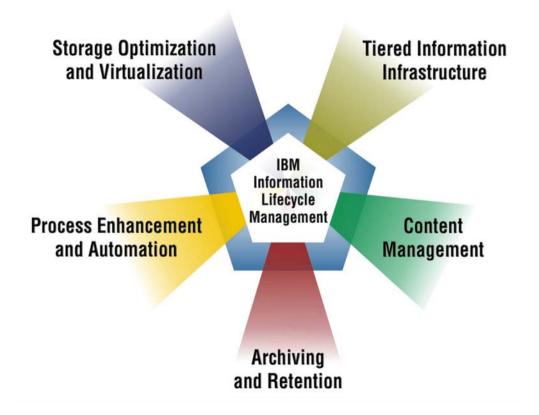
Business Continuity

- Productivity Center for Replication
- Advanced copy services
- Tivoli Storage Manager (TSM) family
- Tivoli Continuous Data Protection (CDP)
- Tape cluster grids and Peer-to-Peer
- GDOC, GDPS

Lifecycle and Retention

- DR550, DR550 Express, FS gateway
- Grid Archive Manager, GMAS
- TSM Space Management for Unix/Windows
- GPFS, DFSMS
- N series with SnapLock[™]
- WORM tape support

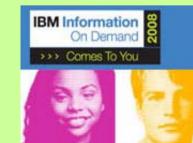












ALLA LUCE DELL'INFORMATION ON DEMAND

Milano, 15 aprile 2008

