# Data Storage and Performance

Marco Coulter
Vice President, Storage
Computer Associates

#### **Abstract**



eBusiness made data availability and performance critical to businesses. Storage management involves much more then just backups and restoration of data. Storage management and performance directly impacts data warehousing, business intelligence, data movement, systems and database performance.

This session will bring the attendee up to speed on what impact storage management and performance have, as well as the technologies that are available to companies today.



#### Speaker Bio



As Vice President, Data Management Solutions in Computer Associates, Marco Coulter is responsible for backup products from laptop to mainframe. A member of the Storage Line of Business team, Mr. Coulter focuses on the future direction of CA's storage solutions.

Marco speaks regularly with CIO's and Storage experts on how storage is changing its role in IT.

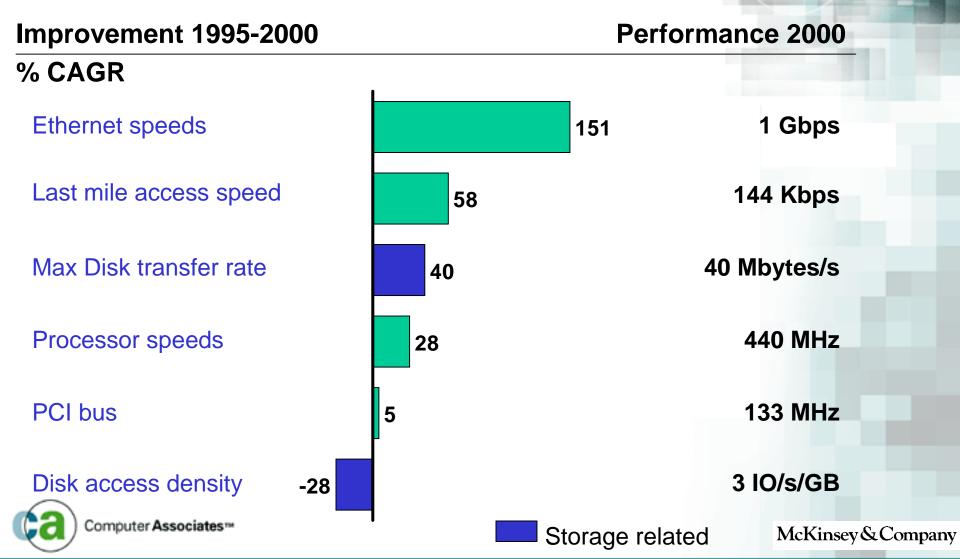
Marco Coulter comes with over 20 years experience working in the LT industries in Australia, Europe and the USA. He has seen all aspects of business computing in the finance, telecommunications and health industries; from operational to CLO perspective.



#### **Bottleneck Changing**



The Software That Manages eBusiness ™



#### **Application Needs Differ**



t	n
~	4
u	Į,
ă	Ď
2	_
2	
7	٠
•	4
a	Ľ
-	5
è	٩
•	1
Q	υ
•	
-	
2	
•	٦
	כ
6	כ
5	כ
C	_
C	_
40	_
C	5
C	5
C	_
C	5
C	5
C	טט
C	5
C	טט
C	טט

Externally
networked

- E-mailWeb page delivery
- E-commerce
  - Rich media on demand
  - Cross-enterprise applications
  - Credit card processing

Multi-user applications

External

#### **Enterprise**

- Intranet
- Document management

- ERP, OLTP
- CRM, SCM
- Data warehousing, BI
- Work flow management
- Core legacy systems
- Industry-specific applications

Multi-user applications
Internal

#### Workgroup

- Word processing
- Spreadsheets
- Desktop/PC backup
- Research databases
- Animation
- CAD/CAE/CAM

Single user applications



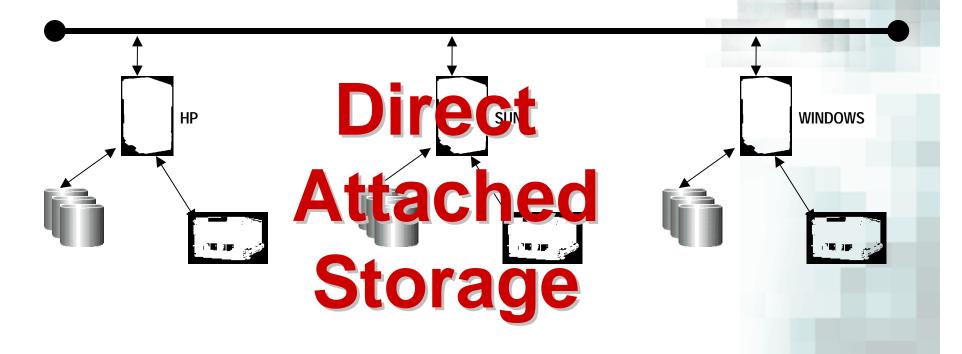
Low

High

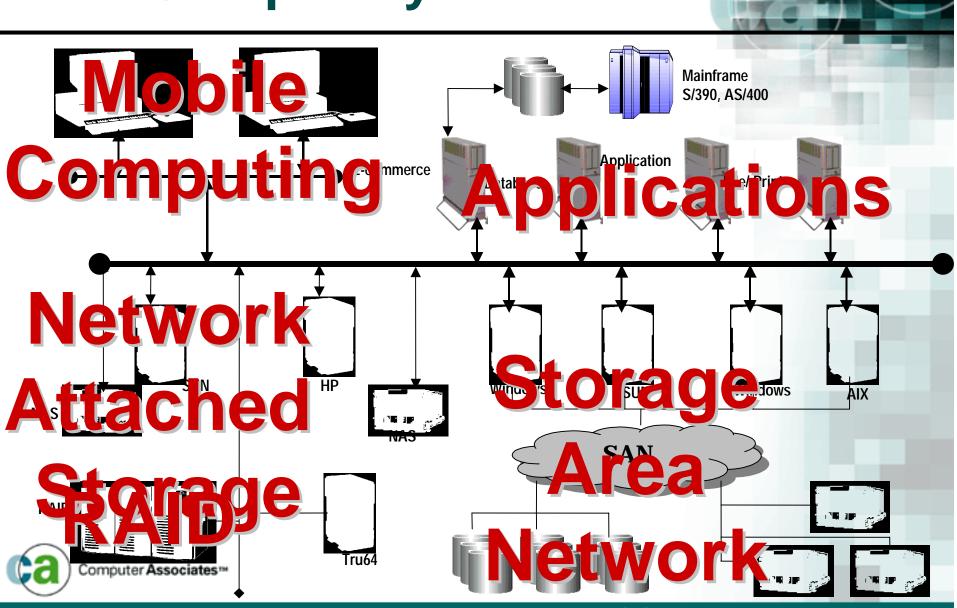
**Need for availability** 

### From Simplicity...





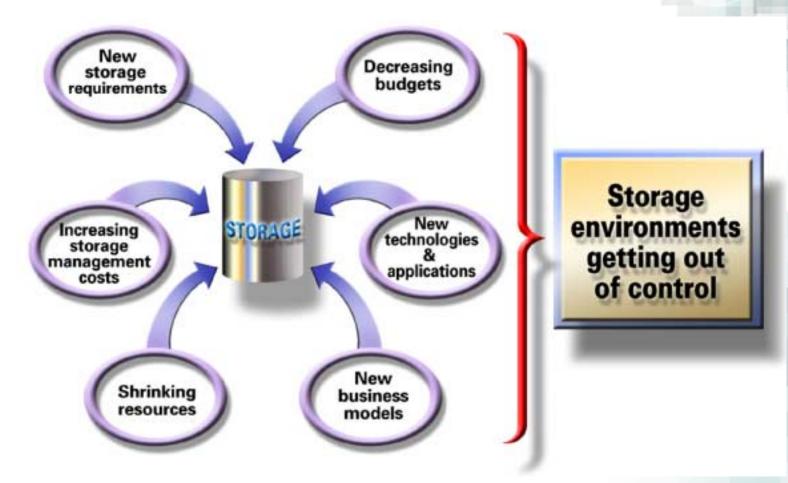
### ...to Complexity



The Software That Manages eBusiness ™

## Competing Forces Changing Storage

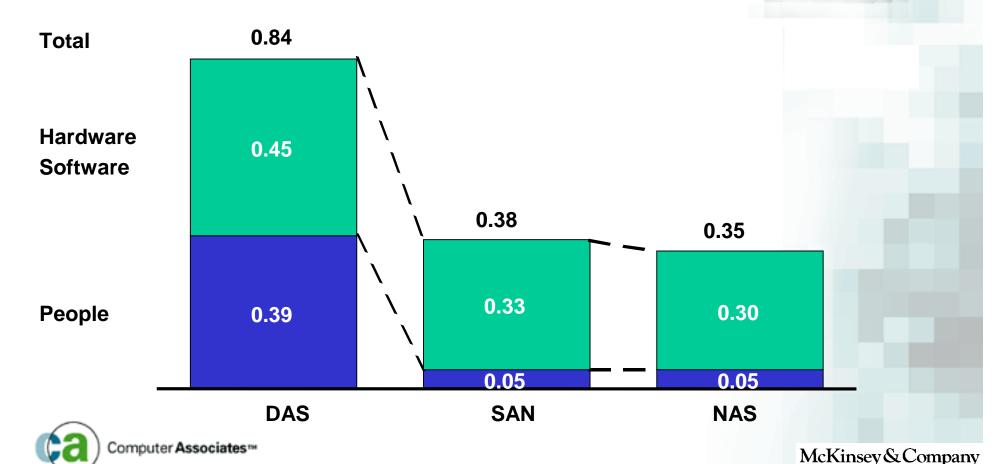






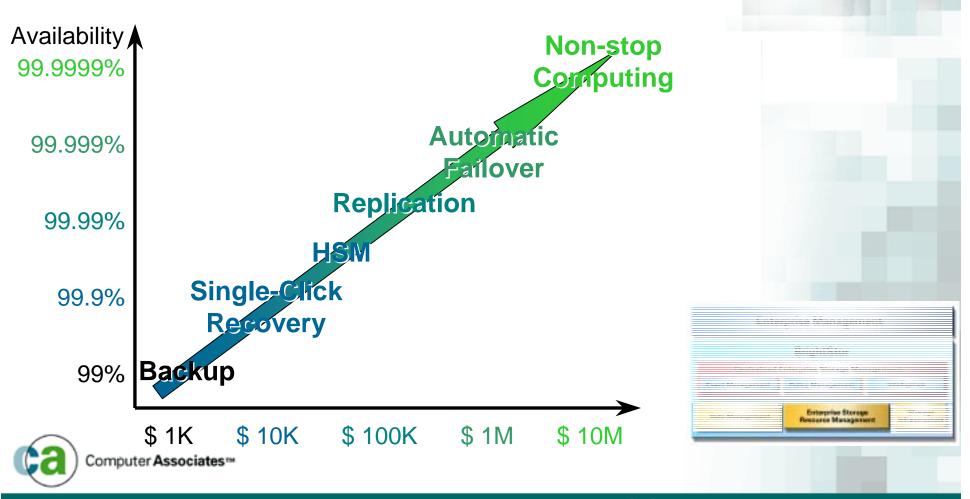
#### NAS and SAN - lower cost

3-Year total cost of ownership by storage architecture \$ per megabyte of user data



#### **Availability Choices**

#### Complete spectrum of availability



#### **A Time of Opportunity**

Complian Associates

- Keep business available
- Keep business recoverable
- Deliver within budget TCO
- Add value deliver new applications



#### **Getting in Control**



- Storage management solutions for the enterprise
  - Data management
  - Enterprise storage resource management
  - Storage infrastructure
  - Centralized enterprise storage management
- Mainframe > open systems > desktop > mobile



#### **Data Management**

- Independent of platform
  - from *laptop* to *mainframe*

Windows, Solaris, HP-UX, IBM AIX, Linux, Tru64, OS/400, OS/390, Z-OS, ...

- Independent of technology
  - SAN, NAS, local, remote, IP based, etc
- Optimized Application storage
  - databases, applications





#### **Enterprise Backup**

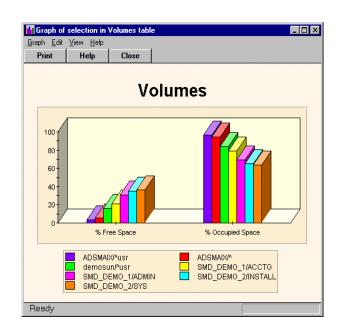


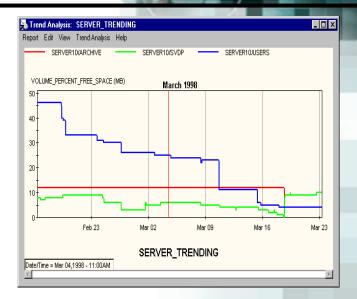
- High-performance Enterprise Data Protection Solution
  - Eliminate backup window limitations
- Unlimited environment scalability
- Advanced manageability features
  - Reduces total cost of ownership
  - Ensures business continuity
- Data protection for all popular enterprise server platforms
  - UNIX
  - Windows

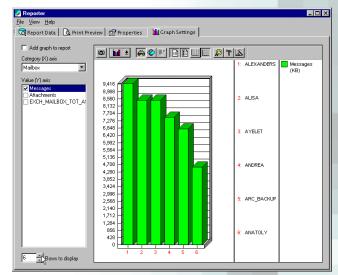


#### Resource Management

- Collection
- Reporting
- Analysis
- Automation
- Integration





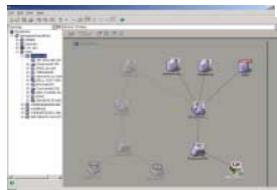




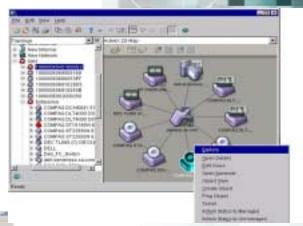
### Resource Management - SAN

- Discovery
- Visualization
- Monitoring
- Administration
- Performance

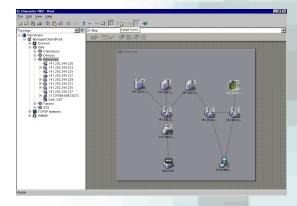
Zone Management



Device Discovery/ Visualization



Zone Discovery/ Visualization





### **Centralized Enterprise** Storage Management

- Single Point of Control
- Enterprise Wide Policies
- Intelligence
- Automation
- Integration



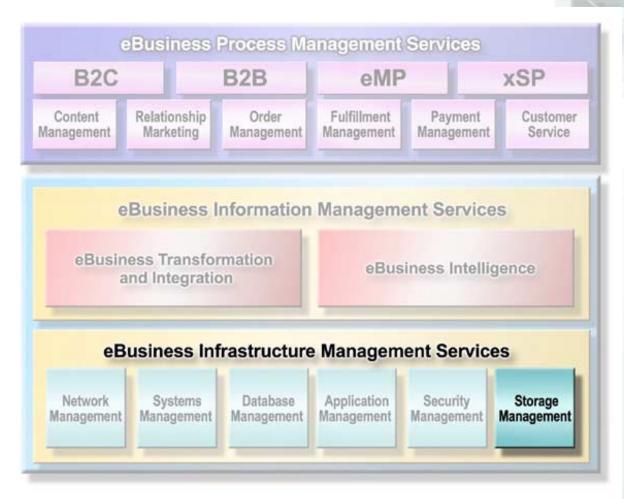


#### **CA Storage Strategy**

- Compliter Associates
- Best-in-class, branded applications
- Intelligent Enterprise-wide solutions
- Integration Partners
  - HP, and others
- Integration Products
  - 3<sup>rd</sup> Party, API's, ...
- Complete Platform Coverage
  - Mobile to mainframe
  - DAS, SAN and NAS

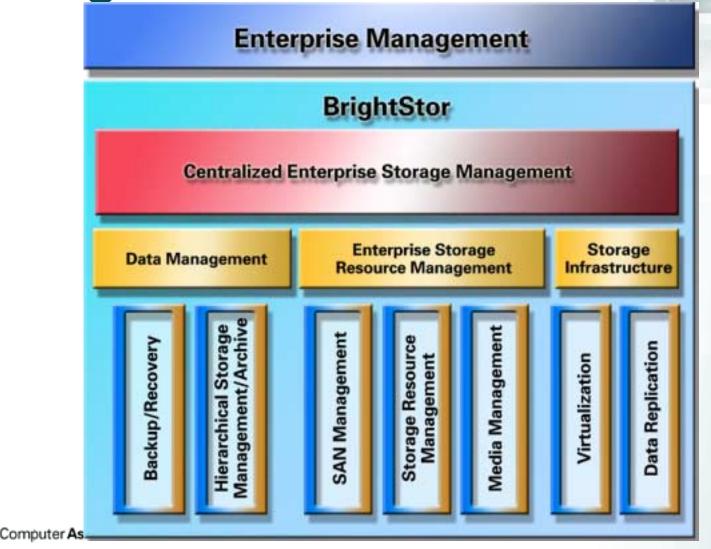


### eBusiness Storage Management





## BrightStor Storage Management Solutions



#### Takeouts...

- What are your requirements?
- Can you wait?
- Is your business protected?
- Watch for the name BrightStor





# Data Storage and Performance

Marco Coulter
Vice President, Storage
Computer Associates