

The Marks & Spencer Solution

HDS Reseller Academy
HDS Sefton Park
09 July 2009

Matthew Yeager Practice Leader, Data Storage and Protection

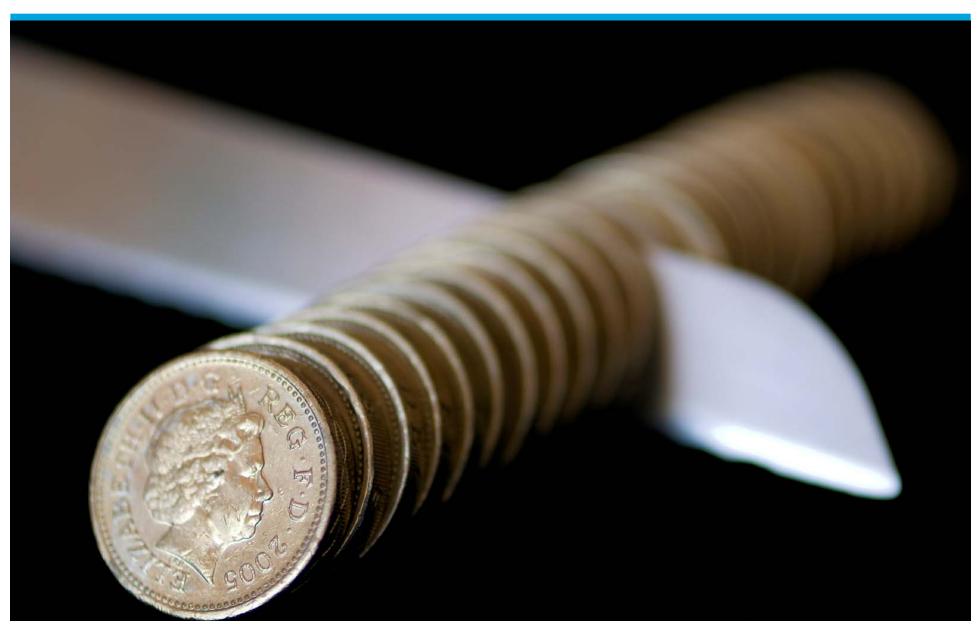
M&S had a problem ...





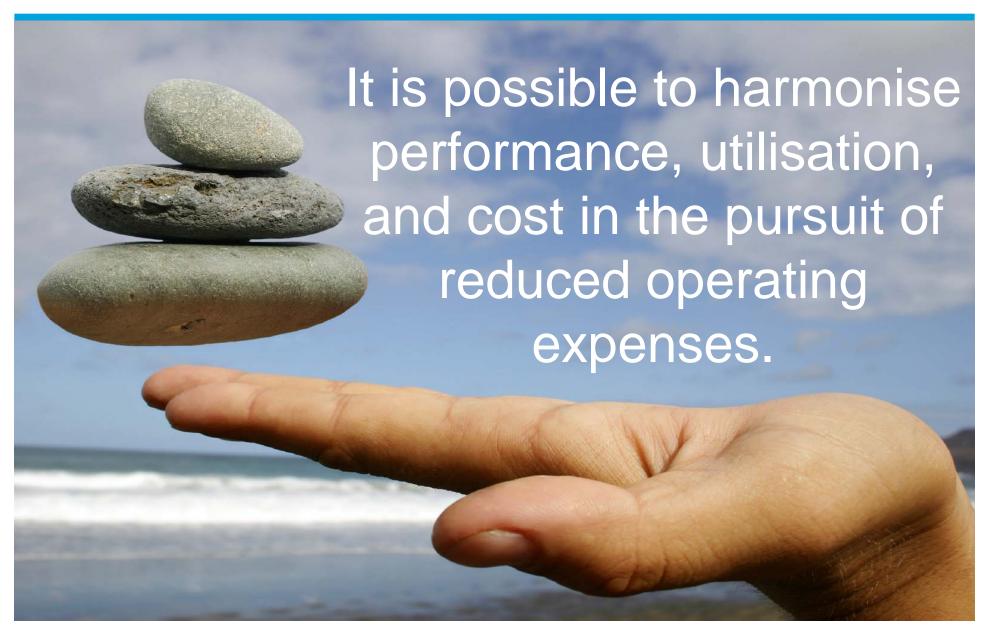
... which frankly wasn't a unique problem. Computacenter





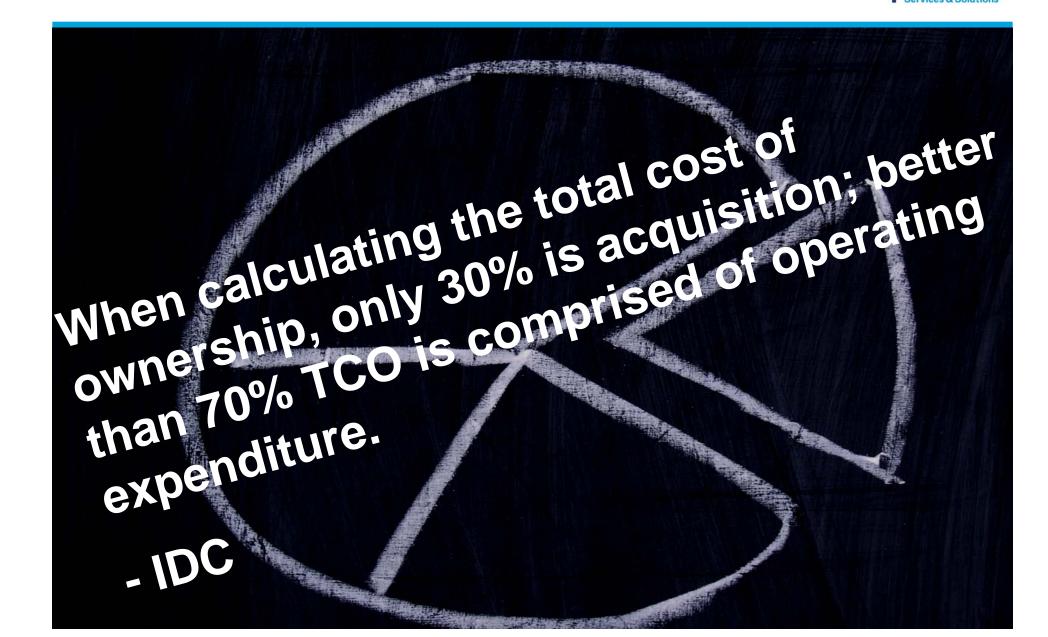
This was our solution.





The underlying issues, however ...





... and no one had told them this, either.





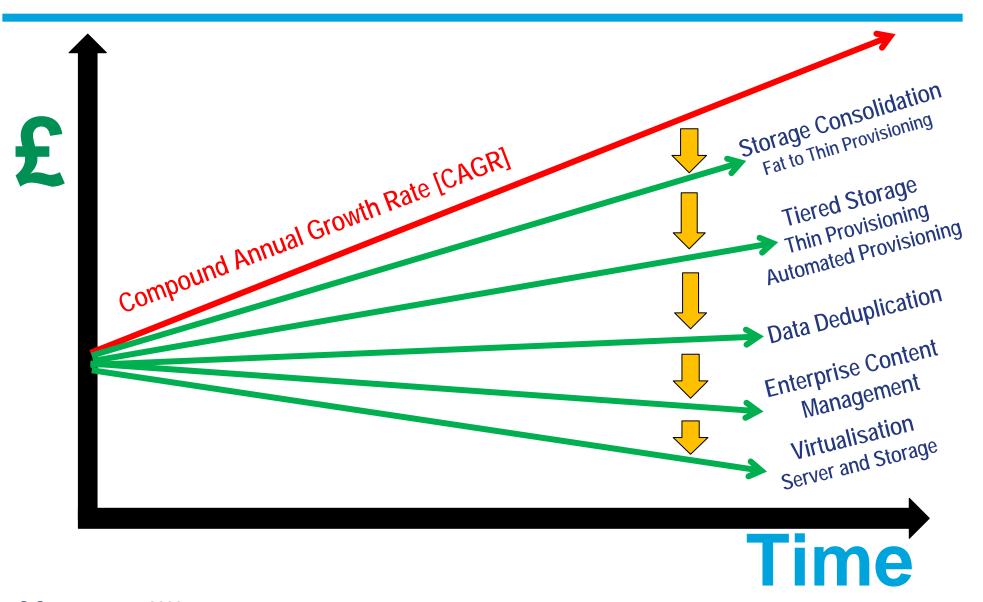


Our Approach

Computacenter Storage Strategy





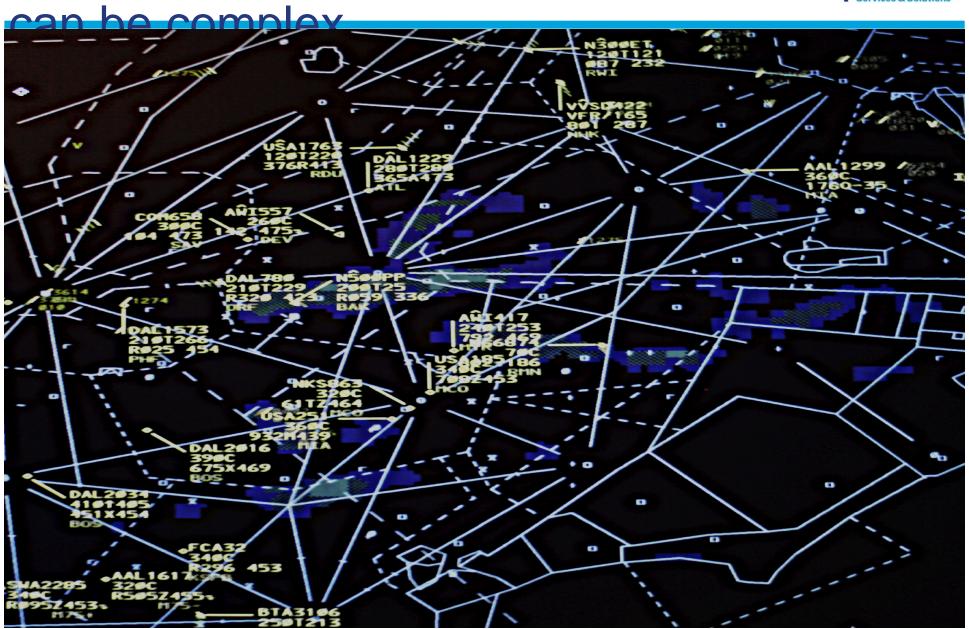




The Solution

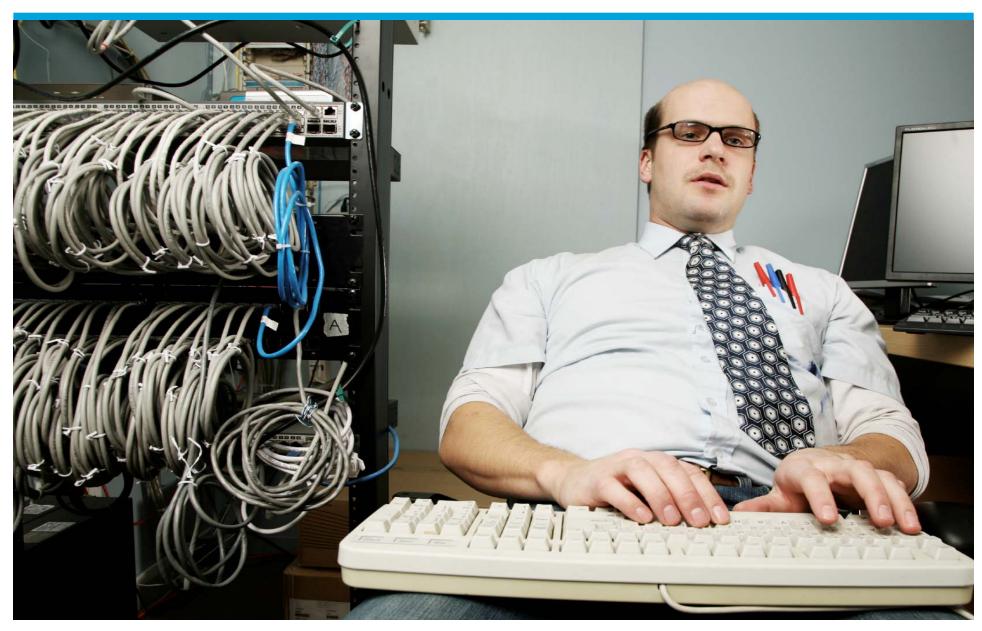
mobility





... largely manual ...





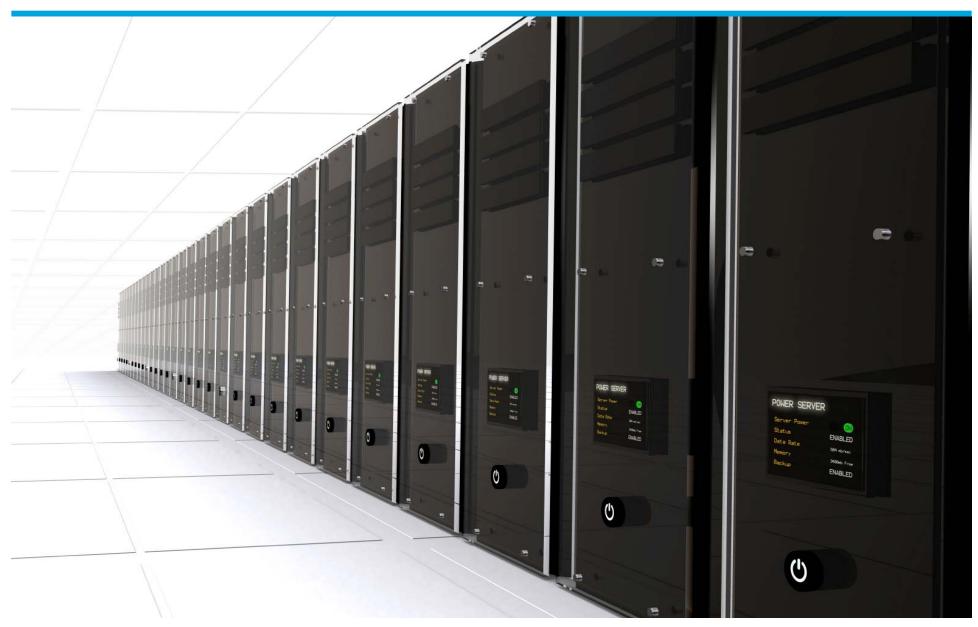
... and terribly inefficient.





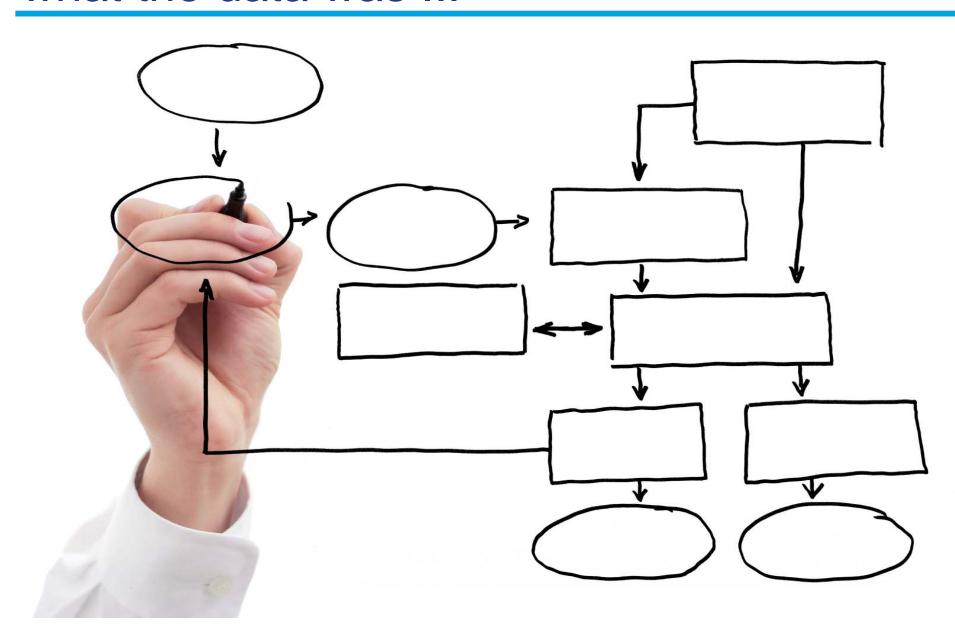
So why would you keep just buying more of these?!





We firstly mapped what the data was ...





... knowing all data is just, well ...



Zero Page Reclamation

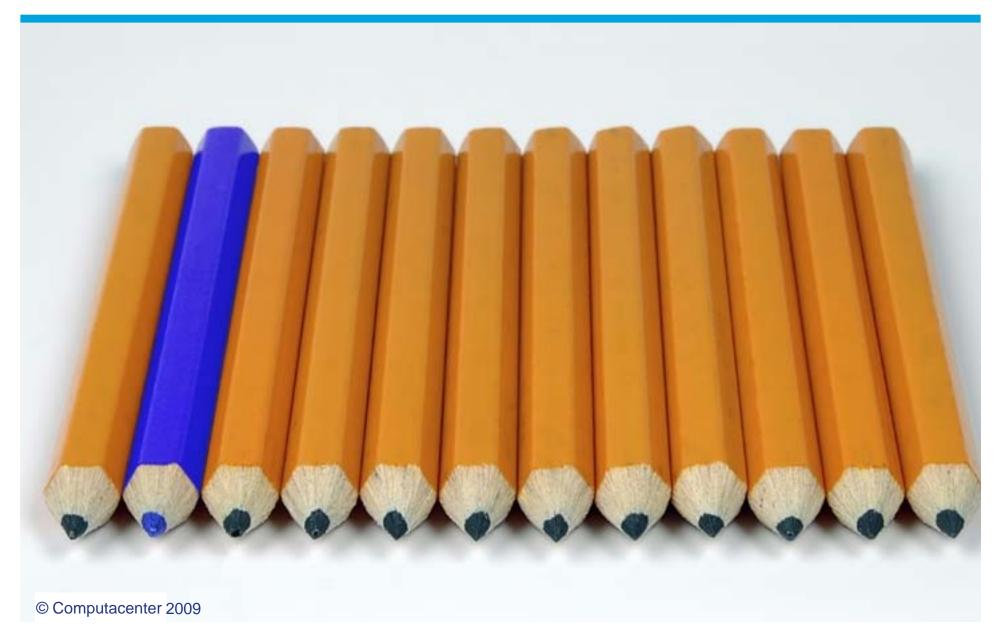


Fat to Thin Provisioning Migration



... and thin provisioning.





M&S Solution



Computacenter presented **seven available options** to M&S and helped them to understand why the **HDS solution** was the most viable through composite scoring method.

HDS USPV to provide **40TB** to satisfy immediate storage requirements.

Added benefit of **storage virtualisation** to introduce data mobility and low impact data migrations.

Low impact data migrations will allow the previously non-performant DMXs to be reconfigured and the BIN files updated with minimal disruption to the production business.

HDS AMS and **HCAP** 'pull through' once we had got past the danger zone.

Recent Zero Page Reclaim [ZPR] job migrated a 6TB test volume to a 3.3TB thin provisioned volume amounting to a better than £25k savings in disk cost.

Thank You







Sales Track



Hitachi Data Systems





IT Culture & Storage Economics

Tony Reid, UK Services Director

Agenda



- Behind the technology and the solutions
 - Some history



- A Service Lead view
- Adoption



Hitachi Data Systems





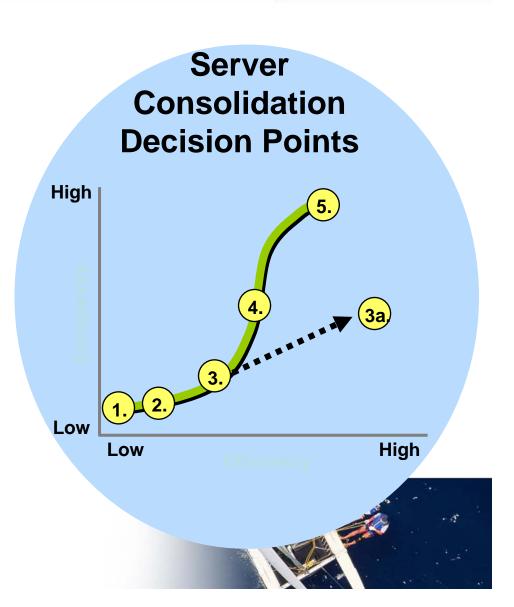
Some History

Stepwise Server Consolidation



Source: Meta Group - 2000

- 1. Random server proliferation: Highly inefficient
- 2. Physical co-location of systems (e.g., server and storage)
- 3. Storage consolidation
- 3a. "Legacy" consolidation of smaller applications
- 4. Like-workload consolidation
- 5. Last and bravest choice:
 Mixed workload consolidation



Culture & Organisation



- Storage Consolidation
- Started with the big multiplatform box
- Lowest platform denominator availability



Building a single storage management team



Culture & Organisation



- Storage Networking
- Next wave of storage consolidation
- Enable early tiered storage concepts
 - Through infrastructure components
 - Through differing storage costs



Adoption of Charge Back policies



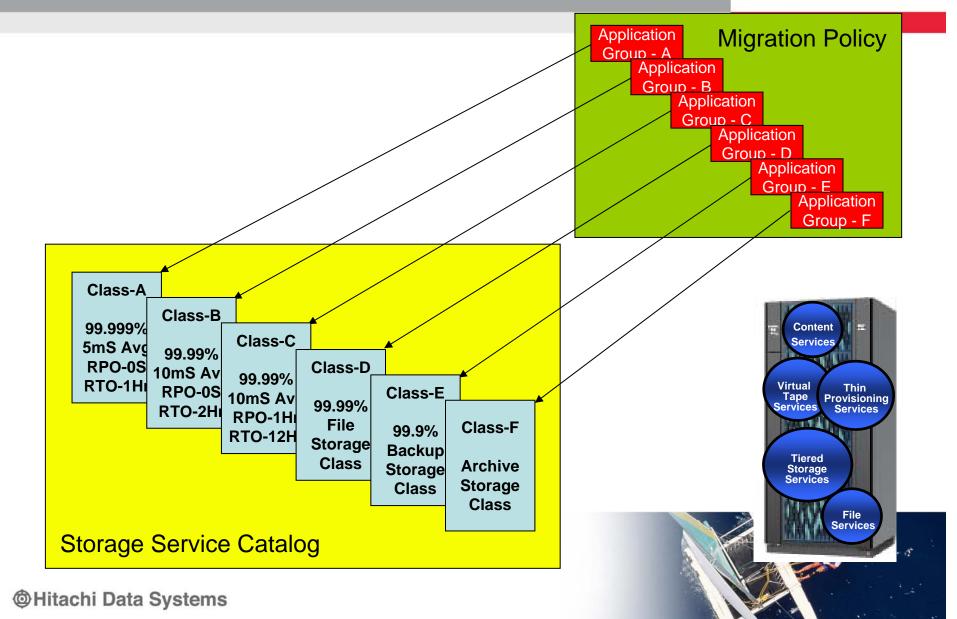
Hitachi Data Systems



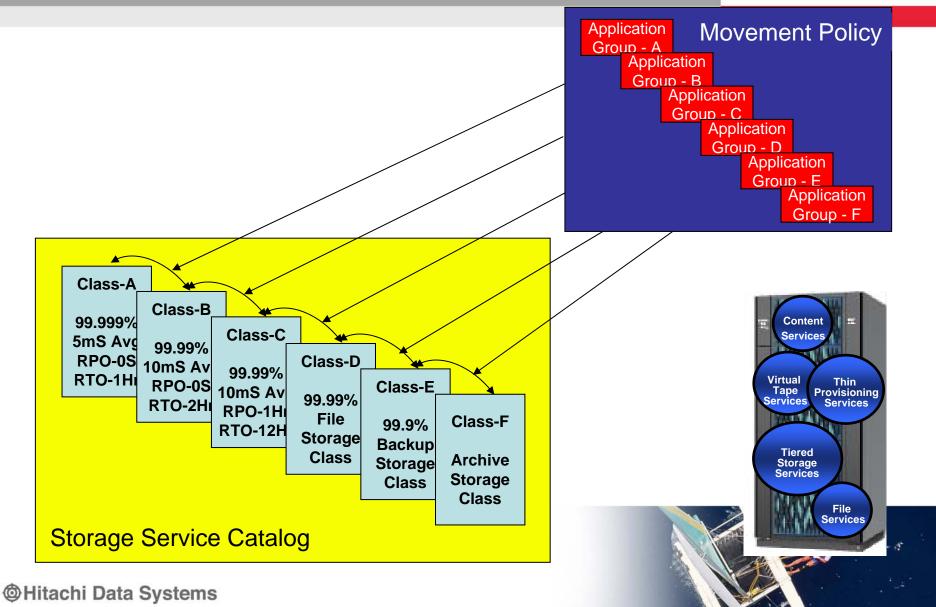


What's Next











- How do we deliver storage as a service
 - Technology is ready and in use now
 - True SERVICE catalog skills exist today
 - Design
 - Implementation
 - Management



But – how do you Charge Back





'Contract' to deliver Service Levels

Use the Service Catalog

- Account for the risk
 - Technical
 - Commercial





Adoption



- Explore the service lead opportunity
 - Don't expect immediate acceptance
- Utilise the technology and solutions now
 - Commercial benefits are too compelling not to
- What can HDS do to help
 - We are experts





Thank you



Hitachi Data Systems





Modular Solutions

Rupinder Brar, UK & IR Modular Business & Partner Manager David Parker, Territory Account Manager



HDS UK Partner Day 2009

Modular Solutions

Thursday 9th July 2009

Rupinder Brar UK&I Modular Business & Key Partner Manager



Agenda

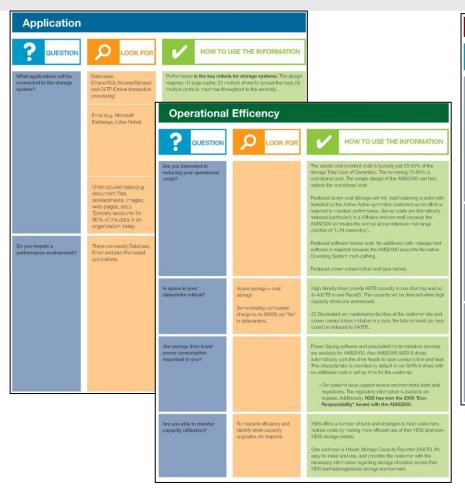


- HDS Modular Solutions
 - Sales & Marketing support
 - Qualification questions
 - Applications Solution Sales tools
 - The Proof "What the papers say"...
 - HDS Partner & Customer rewards modular promotions
- David Parker UK Sales Account Manager
 - Putting it into practice
- Q & A / Discussion



Sales Tools; Opportunity Qualification Questions

HITACHÍ Inspire the Next





Sales Tools; AMS Application Solutions



Customer concern:	Using a reliable and highly available application platform that is easily scalable					
Solution areas:	Exchange	Oracle/SQL Databases	VMware			
What HDS offers:	that is easily scalable to r	Proven deployment and management of storage hat is easily scalable to meet escalating demands running Exchange and Database environments				
Running on:	Adaptable Modular Storage 2100, 2300 and 2500					
And supported by:	Reference Architectures, Best Practices, Deployment Guides, Monitoring and Managing Guides					





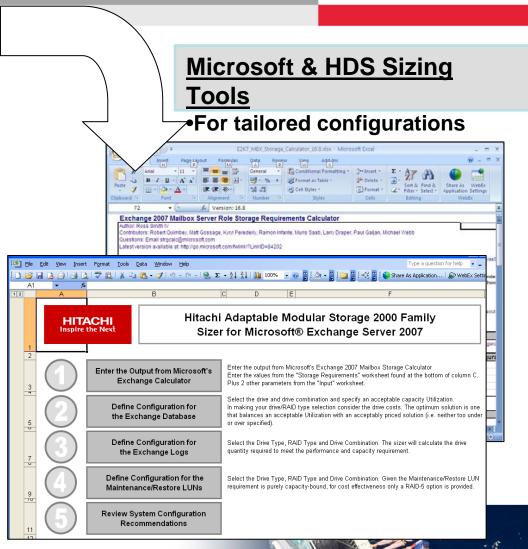




Sales Tools; MS Exchange 2007







AMS2000 Recommended Configurations for Exchange 2007



	400 Mailbox ⁵	1,000 Mailbox	2,000 Mailbox	3,000 Mailbox	5,000 Mailbox	7,000 Mailbox	9,000 Mailbox	10,000 Mailbox
Overview								
Model	AMS2100	AMS2100	AMS2100	AMS2100	AMS2100	AMS 2100/2300	AMS2300	AMS2300
Raw Capacity	7.3TB	10.8TB	17TB	23.1TB	39.5TB	50.4TB	62.3TB	75.4TB
Usable Capacity	3.8TB	5.4TB	e.1TB	11.4TB	19.7TB	24.5TB	29.8TB	37.9TB
Drive Type	450GB/1TB	450GB/1TB	450GB/1TB	450GB/1TB	450GB/1TB	450GB/1TB	450GB/1TB	450GB/1TB
Total Drive Quantity	15	23	37	50	83	108	136	157
System Design								
Db								
Drive Type & RAID Level	450GB SAS - RAID 1+0	450GB SAS - RAID 1+0	450GB SAS - RAID 1+0	450GB SAS - RAID 1+0	450GB SAS - RAID 1+0	450GB SAS - RAID 1+0	450GB SAS - RAID 1+0	450GB SAS - RAID 1+0
Configuration	2 RAID Groups (2D+2D)	4 RAID Groups (2D+2D)	7 RAID Groups (2D+2D)	10 RAID Groups (2D+2D)	16 RAID Groups (2D+2D)	22 RAID Groups (2D+2D)	28 RAID Groups (2D+2D)	31 RAID Groups (2D+2D)
	5 DB LUNs (135GB each)	11 DB LUNs (154GB each)	24 DB LUNs (140GB each)	33 DB LUNs (154GB each)	56 DB LUNs (150GB each)	80 DB LUNs (148GB each)	102 DB LUNs (150GB each)	112 DB LUNs (150GB each)
Logs								
Drive & RAID Level	450GB SAS - RAID 1	450GB SAS - RAID 1	450GB SAS - RAID 1	450GB SAS - RAID 1+0				
Drive Combination & Design	1 RAID Group (1D+1P)	1 RAID Group (1D+1P)	2 RAID Groups (1D+1P)	1 RAID Groups (2D+2D)	2 RAID Groups (2D+2D)	2 RAID Groups (2D+2D)	3 RAID Groups (2D+2D)	3 RAID Groups (2D+2D)
	5 Log LUNs (12GB each)	11 Log LUNs (14GB each)	24 Log LUNs (12GB each)	33 Log LUNs (14GB each)	56 Log LUNs (13GB each)	80 Log LUNs (13GB each)	102 Log LUNs (13GB each)	112 Log LUNs (13GB each)
Restore LUN								
Drive & RAID Level	1TB SATA - RAID 5	1TB SATA - RAID 5	1TB SATA - RAID 5	1TB SATA - RAID 5	1TB SATA - RAID 5	1TB SATA - RAID 5	1TB SATA - RAID 5	1TB SATA - RAID 5
Drive Combination & Design	1 RAID Group (2D+1P)	1 RAID Group (2D+1P)	1 RAID Group (2D+1P)	1 RAID Group (3D+1P)	2 RAID Groups (3D+1P)	2 RAID Groups (3D+1P)	2 RAID Groups (3D+1P)	4 RAID Groups (3D+1P)
	Restore LUN size: 140GB	Restore LUN size: 638GB	Restore LUN size: 1754GB	Restore LUN size: 1913GB	Restore LUN size: 2871GB	Restore LUN size: 3059GB	Restore LUN size: 4642GB	Restore LUN size: 8769GB
Spare Drive Quantity	2	2	2					
What to Order)	l -	Daal		
Drives	11 x 450GB SAS 4 x 1TB SATA	19 x 450 GB SAS 4 x 1TB SATA	33 x 450 GB SAS 4 x 1 TB SATA	Pre-define	ed Excha	nge Pack	<u>rages</u>	

Notes

Software

Ports

Price

1 The configurations are based on typical Exchange environments, using Microsoft's "Exchange 2007 Mailbox Server Role Storage Requirements Calculator" and Hitachi Data Systems' "AMS2000 Simple Sizing Tool for Exchange 2007"

4 FC ports

Device Manager

- 2 Both the Exchange performance and capacity requirements are considered with the best practise guidance from Microsoft and lab testing by Hitachi Data Systems.
- 3 Utilisation of each disk tray is optimised where possible.
- 4 Configurations offer approx.75% capacity utilisation, allowing 25% for future growth
- 5 The 400 Mailbox configuration is the minimum configuration given the RAID types used.
- 6 Usable capacity in defined to "Base 2" (i.e. 1TB = 1024GB, not 1000GB).

4 FC ports

Device Manager

- 7 The designs assume the storage system will be used solely for Exchange.
- 8 For 99,999% availability, ensure all drives are SAS (i.e. substitute the SATA drives used for the Restore LUN with SAS drives). Use the sizing tools referred to in note 11.

9 The configurations Exchange Se

4 FC ports

Device Manager

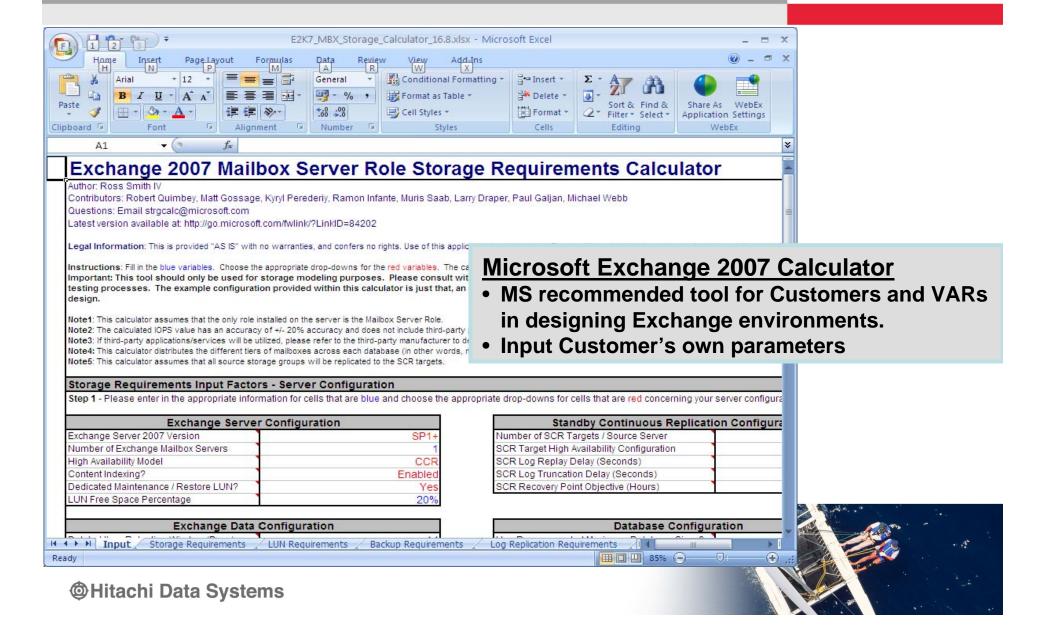
- High Availabil
- Send/Receive
- Average Mes
- Tier-1 User M
- Outlook Mod
- No Blackbern

- Open discussion with a tangible offering
- Based on assumptions of Customers own **Exchange environment**
- **Next Steps: Engage Exchange specialist to review** specific needs.
- **Use Microsoft & HDS Tools**



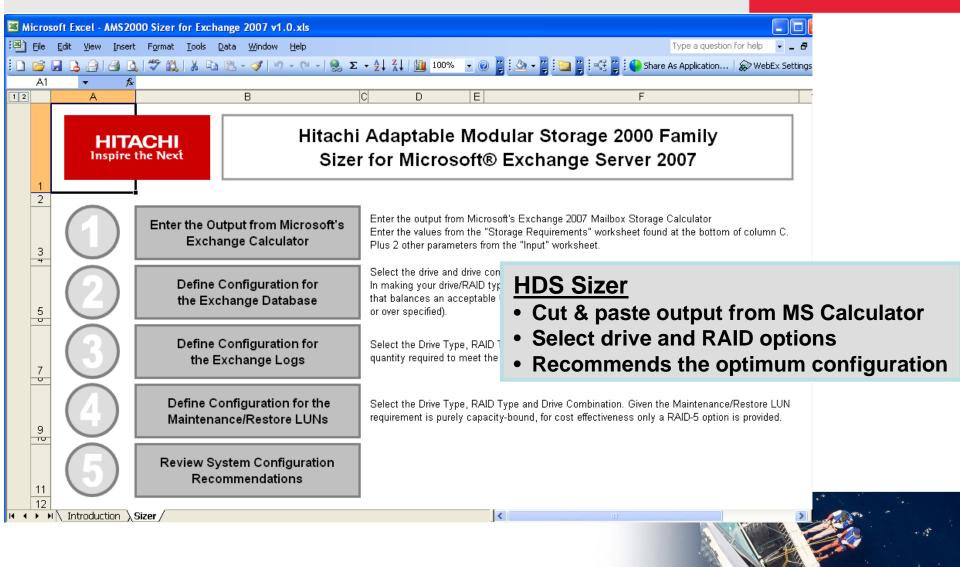
Sales Tools; MS Exchange 2007 Storage Calculator





Sales Tools; AMS Sizer for Exchange Server 2007





Sales Tools; Detailed Planning Guide







Planning for Microsoft® Exchange Server 2007 Deployments on the Hitachi Adaptable Modular Storage 2000 Family

Reference Architecture and Best Practices Guide

By Rick Andersen, Patricia Brailey, Sleven Burns (MCSE 2003 Messaging and Security, MCTP Exchange 2007) and Larry Messe

December 2008

Hitachi Storage Solutions

@Hitachi Data Systems

36 Page Planning Guide

- Use with, or independently of, other sales tools
- Best practice guidance
- Reference Architecture
- Perfect for fully customised solutions

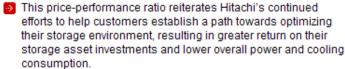


Best in class SPC-1 Benchmark results

HITACHÍ **Inspire the Next**

		Hitachi Data Systems IBM				NetApp	EMC	
Model	Adaptable Modular Storage 2100	Adaptable Modular Storage 2300	Adaptable Modular Storage 2500	DS4300	DS4800	DS5300	FAS3040	CX-3 Ultrascale 40
Controller Type	Active-Active	Active-Active	Active-Active	Active-Passive	Active-Passive	Active-Passive	Active-Passive	Active-Passive
SPC-1 IOPS	31,498.58	42,502.61	89,491.81	12,102.97	45,014.81	62,244.00	30,992.39	24,997.49
Price/Performace	\$5.85/SPC-1 IOPS	\$6.96/SPC-1 IOPS	\$6.71/SPC-1 IOPS	\$11.07/SPC-1 IOPS	\$13.94/SPC-1 IOPS	\$11.76/SPC-1 IOPS	\$13.58/SPC-1 IOPS	\$20.72/SPC-1 IOPS
SPC-1 Sustainability Rate (Throughput MB/s)	258MB/s	350MB/s	735MB/s	99.5MB/s	370MB/s	510MB/s	260MB/s	205MB/s
Average Response Time (10% Load Point)	1.83ms	1.88ms	2.10ms	2.07ms	2.15ms	1.75ms	2.86ms	4.34ms
Average Response Time (50% Load Point)	2.67ms	2.70ms	2.88ms	4.21ms	3.26ms	2.95ms	5.27ms	6.72ms
Average Response Time (80% Load Point)	4.80ms	4.05ms	5.02ms	7.96ms	5.24ms	4.41ms	9.65ms	11.79ms
Average Response Time (100% Load Point)	8.15ms	6.33ms	8.98ms	21.09ms	15.39ms	14.37ms	22.32ms	24.12ms

- In SPC-1 benchmark testing, the Hitachi Adaptable Modular Storage 2500 achieved the highest throughput results among all midrange storage competitors with dual controllers.
- With an impressive throughput result of 89,491.81 SPC-1 IOPS™ and an 8.98 millisecond average response time, the Adaptable Modular Storage 2500 provides the best performance and response times for key business applications such as Microsoft Exchange, SQL, Oracle, SAP or any other online transactional processing application, allowing users to more effectively scale their workloads at a best-in-class price point.
- The Hitachi Adaptable Modular Storage 2100 achieved among the best SPC-1 Price-Performance ratio in its class at \$5.95/SPC-1 IOPS™, bringing high performance to a new affordable price level and allowing customers to realize a lower total cost of ownership.
- efforts to help customers establish a path towards optimizing their storage environment, resulting in greater return on their storage asset investments and lower overall power and cooling consumption.

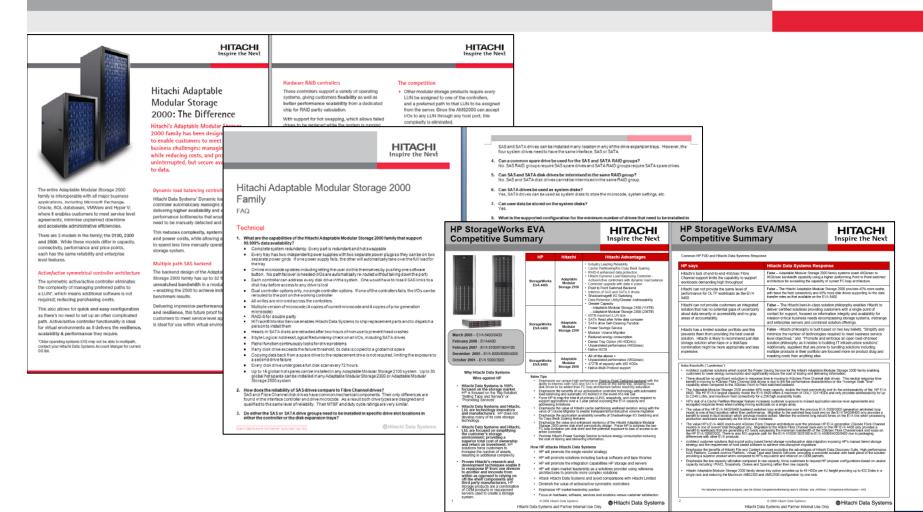






Sales Tools; Marketing Collateral





AMS 2000 'What the papers say'

disk subsytems category.





The Hitachi Adaptable Modular Storage (AMS) Series 2000 was selected by the editors of TechTarget's SearchStorage.com as a Bronze Award Winner its Search Storage Products of the Year"...in the disk, annual "Storage Products of the Year"...in the disk,

The Hitachi Adaptable Modular System 2500 has won the Eco-Responsibility Award in this year's Information Age Innovation Awards, beating out stiff competition

InformationAge

Gartner positioned Hitachi & the Hitachi AMS2000 family in its Magic Quadrant..."this quadrant reflects highest scores for their ability to execute and completeness of vision...they are innovators...with a clear understanding of market needs" - Nov 17, 2008

Gartner

Hitachi achieves overall best-in-class Storage Performance Council (SPC-1™) benchmark results for its midrange storage system (Hitachi AMS2000). March 24, 2009



"With the AMS, I actually think a layperson could use it. I think that's how easy it is; it's really a point and click deal." - Matthew Colona, IT Manager at Pite Duncan LLP (Storage Magazine, March 2009

"The AMS2000 series combination of enterprise class features with easy to manage midrange usability and reduced operational costs is powerful and worthy of serious consideration by an IT organization. "

Hitachi Data Systems has consolidated its claim as the top-rated high-end array vendor by repeating its win..."- Rich Castagna, Editor



AMS 2000 Promotions





Extra margin. Extra rewards. From Hitachi Data Systems' Modular Storage Promotion

Click here to find out what makes our AMS range unique

Due to overwhelming demand, Hitachi Data Systems is pleased to announce that we will be extending our popular Adaptable Modular Storage Capital Bonds and extra margin promotion until the end of September. Furthermore, we are offering a substantially improved buy price for the configurations!

The four configurations below have been specially designed for this promotion; offering an impressive margin opportunity, but that is just the beginning! With all of these bundles you also get an exclusive chance to earn yourself Capital Bonds.

With over 140 retailers to choose from, you can spend your Capital Bonds on anything from computer games to clothes! Or put them towards a holiday or gift experience such as kite boarding or scuba diving.

This offer is available until 30th September 2009 and only available to partners buying from Bell Microproducts or Zycko Ltd. To take advantage of this special offer all opportunities must be registered and accepted through the PartnerXchange opportunity registration portal.

Here are the 4 available configurations:

Adaptable Modular Storage Configurations	Reseller Buy Price	Suggested Customer Price	
2100 SATA, 12x1TB 7.2K Drives, 8GB Cache, 36 months 24x7x4hr support, Storage Navigator S/W and install.	£14,300	£15,770	£1,000
2100 SAS, 12 x 450GB 15K Drives, 8GB Cache, 36 months 24x7x4hr support, Storage Navigator S/W and install.	£15,650	£17,215	£1,500
2300 SATA, 12x1TB 7.2K Drives, 8GB Cache, 36 months 24x7x4hr support, Storage Navigator S/W and install.	£20,000	£22,000	£2,000
2300 SAS, 12 x 450GB 15K Drives, 8GB Cache, 36 months $24x7x4hr$ support, Storage Navigator S/W and install.	£21,600	£23,760	£2,500



Switch to Hitachi Data Systems and let us do all the work

Dear [customer]

Are you looking for a new storage solution, but don't have the resources to deal with such a time-consuming task?

Physically disposing of the old system can be difficult. Even though you can see the benefits, dealing with the legal requirements for safe and legal data transfer, and the decommissioning of old machines can be extremely time complex. Fortunately, Hitachi Data Systems can belo

Introducing the new Hitachi Data Systems Storage Buy-back Programme

Switch to an Adaptable Modular Storage solution from Hitachi Data Systems to take advantage of their **Storage Buy-back Programme**. Not only will they arrange for your old system to be removed, they'll dispose of it safely and securely, while working through the time-consuming legal and administrative formalities.

What's more, you'll benefit from trade-in values of up to 66000 on the purchase price of our range of Hitachi Adaptable Modular Storage solutions. This includes the recently launched Hitachi Adaptable Modular Storage 2000 family. highly reliable and cost effective modular storage for organisations of all sizes. Allowing you to benefit from:

- · Advanced capabilities certified and tested with the leading business applications
- . An easy-to-use management interface for extensive scalability and outstanding system reliability
- . Cost-effective performance and non-disruptive operations helping you concentrate on key business goals

Hitachi Adaptable Modular Storage solutions already deliver the best price/performance, availability and scalability in the modular storage market place. And now, with the efficient Hitachi Data System Storage Buy-back Programme, they're an even more attractive proposition.

[CTA - tailored by each reseller so they can add their own]

Kind regards

[reseller name]

Partner Logo







Questions / Discussion





HDS UK Partner Day 2009

Modular Solutions

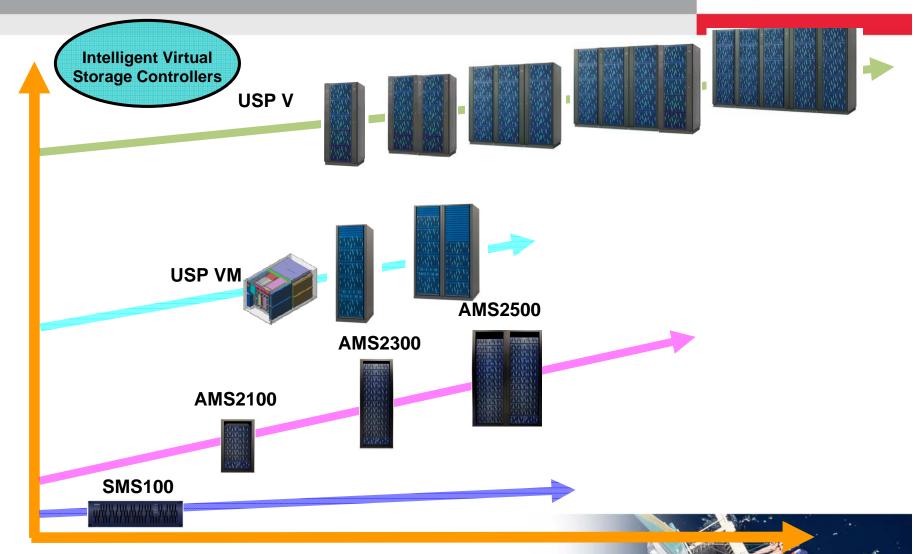
Thursday 9th July 2009

David Parker Territory Account Manager



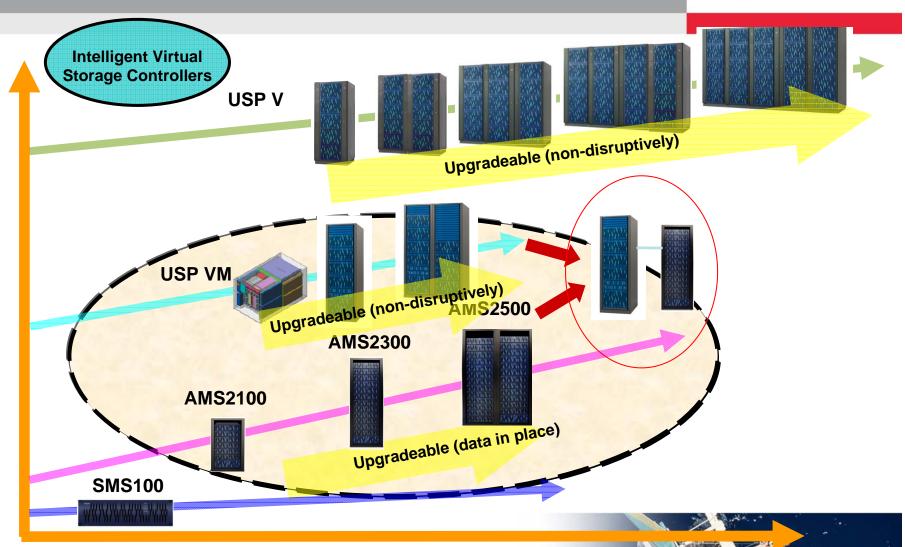
Integrated Scaleable Storage Portfolio





Integrated Scaleable Storage Portfolio





Adaptable Modular Storage Customer Case Studies





Public Sector: The Arts



Local Government



Jubilee International High School Education



Insurance



I ROTHSCHILD **Financial**



Telecommunications



Manufacturing: Automotive



Health Care



Utilities





Government: Public Sector Services



Adaptable Modular Storage 2000 Upcoming Customer Case Studies





Derwent Shared Services
Health Care





Wrexham County Borough Council
Local Government



IT Services



Education



Marks & Spencer
Retail



Inflight Productions

Media



Capstone Mortgages Services
Financial Services



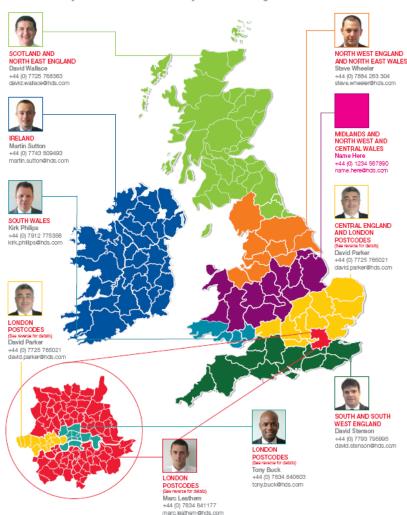




HDS Territory Account Managers

HITACHÍ Inspire the Next







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Thank you



Hitachi Data Systems



Hitachi File and Content Services



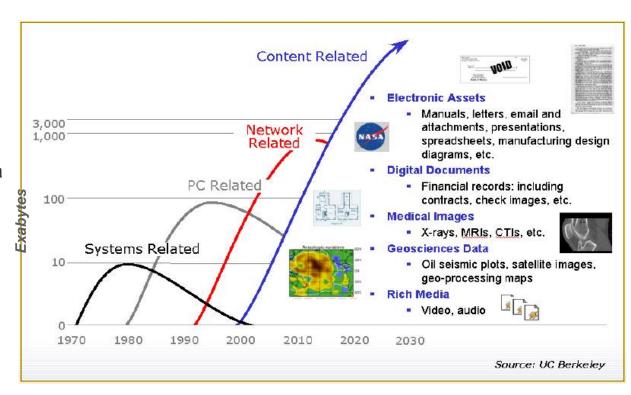
Understanding, Rationalising and Better Managing your Information

Jez Hoppe, Solutions Consultant

Irrational Data Growth



- **Unstructured content** growing faster than traditional information or structured content
 - Database or transactional data
- 75% to 90% of data is unstructured
 - Requires unique capabilities for archive management



Key Drivers for Businesses to deploy an Archive?



Improve Data Management



Enhance Value of Data /Information



Regulatory Compliance / Corporate Governance



Actorises from

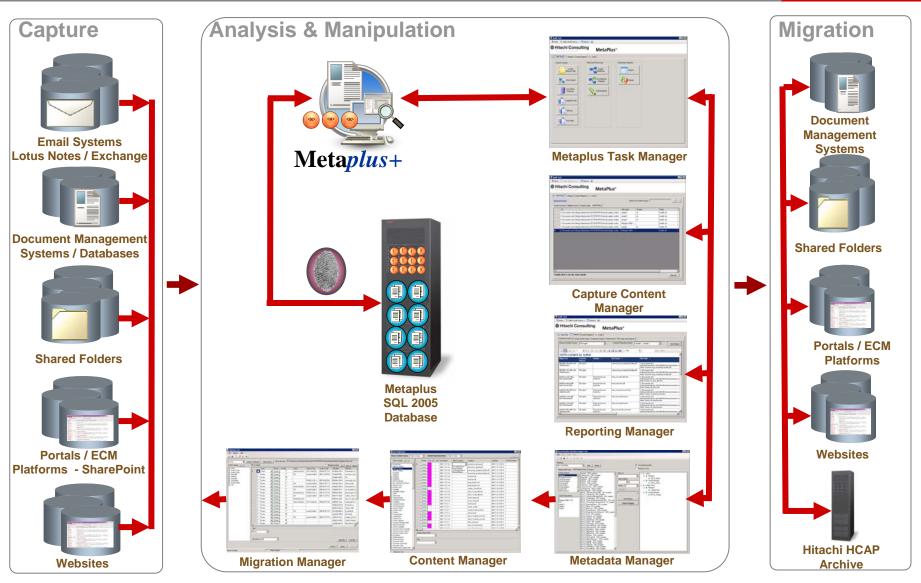
E-Discovery / Search





Information Asset Diagnostics and Migration Platform

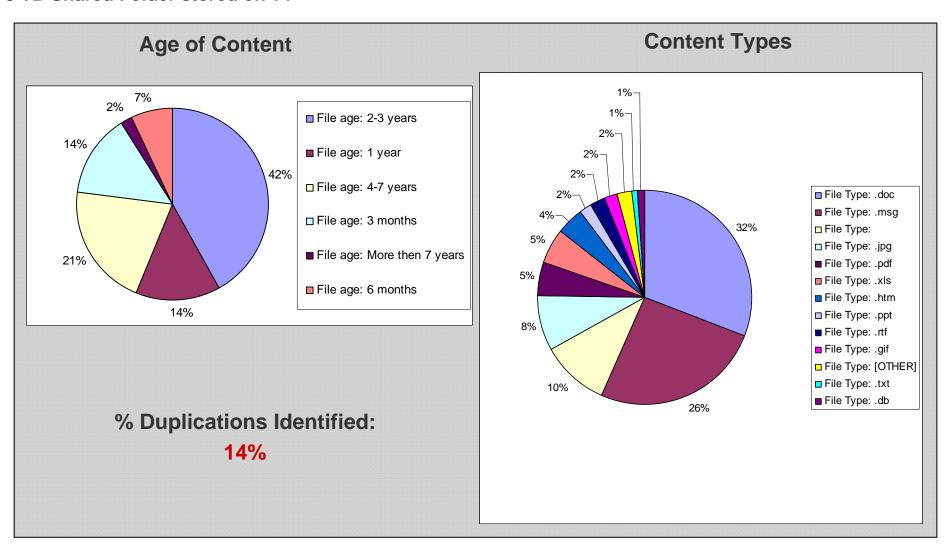




HDS MetaPlus Diagnostics – Sample Output

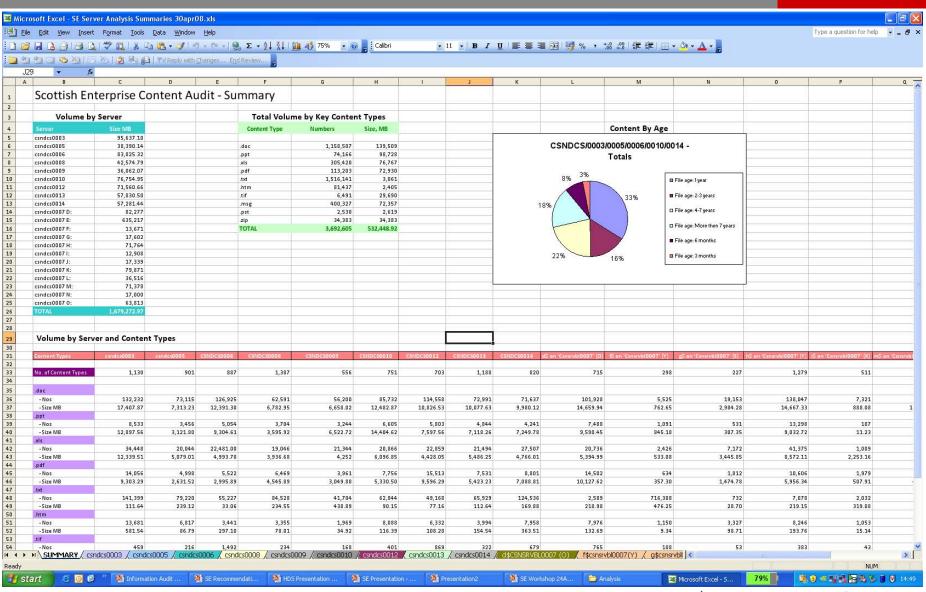


5 TB Shared Folder stored on T1



HDS MetaPlus – Sample Output





Information Diagnostics and Migration - Metaplus+ Key Features





Analyse existing content

- Email
- Web Pages
- Office Documents
- PDF's, Images
- Databases



Manipulate metadata and data / content structure through an intuitive interface

Application of **Enterprise Taxonomy**



Identify duplicate Data / content

Identify and 'Cleaning-up' out-of-date Data / centent efficiently

Identify Data / Content for archiving



Providing Plug-ins to enable the migration of content to an Archive.

Improving your Data / Content quality

Improving Enterprise Search



Obtain management reports accessible through an executive dashboard interface

Running **structured BI** queries on **unstructured** content



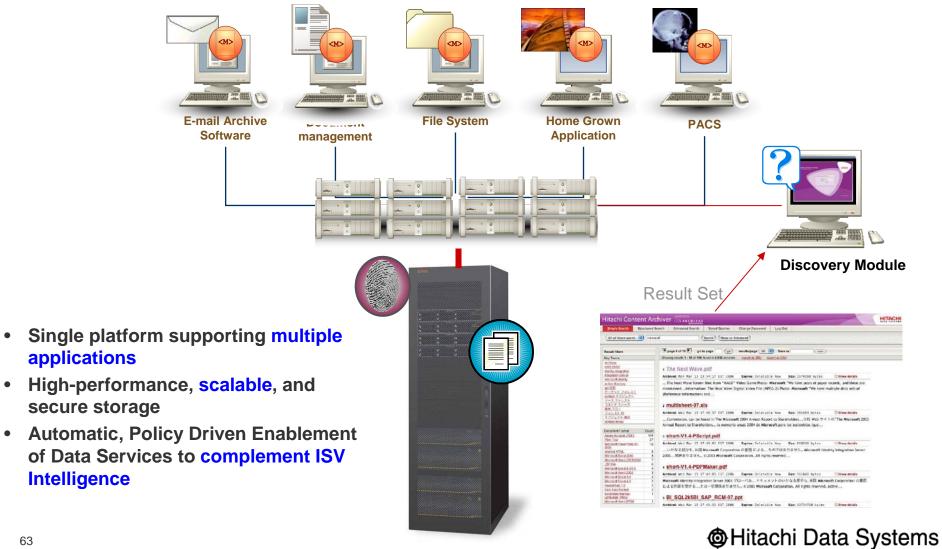
Impact analysis of Data / Content Management Policy changes

Creation of Data / Content rationalisation and archiving strategies and solutions

Hitachi Data Systems

Hitachi Content Archive Platform:





Archive Objects – Content Aware Storage





Data

- File contents stored in original, unaltered format
- Write once read many (WORM) storage
- Global file system and standard namespace

Metadata

- Self-describing attributes
- User extensible in the future
- Database for scalability and extensibility

Policies

- Protection of data through mirroring across nodes
- Retention to ensure compliance
- Digital signature for authenticity
- Single Instancing for storage optimization
- Replication

Customer/User View of the Archive





Open Interoperability

Supports UNIX and Microsoft file systems, can store standard file formats such as XML and HTML, and can leverage other Hitachi SAN storage platforms



WORM, Immutability and Retention

Write once, read many file system where content is stored in an immutable format with the ability to set file-level retention



Single Archive Name Space

- All objects are stored in a single, archivewide global name space, a well understood paradigm
- Open and easy to navigate with standard tools and applications



Simple Monitoring and Management

Can be configured and monitored through a Web-based interface and through SNMP



Search and Indexing

Provide simple and rapid discovery of archive data (search of files and metadata and custom metadata)



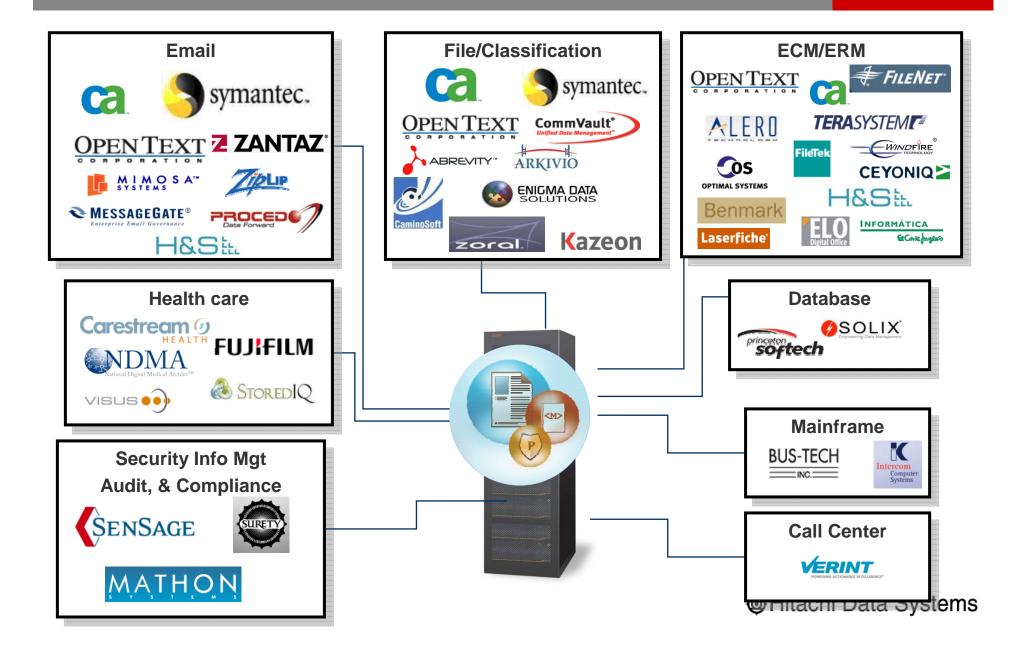
Scalability

- Provide scalability and upgrade paths to create a long term archive
 - Multi-platform migrations
 - Enterprise scalability

Hitachi Data Systems

HCAP Partner Ecosystem: The World's Leading ISVs







Questions/Discussion



Awards and Prizes

Neil Evans, RSD UK Indirect
Harvey Smith, RSD UK & IR Channels





Please remember to fill in your survey and hand it in at reception in order to receive your "moleskin" book!

Thank you for coming!

See you at the pub!

