

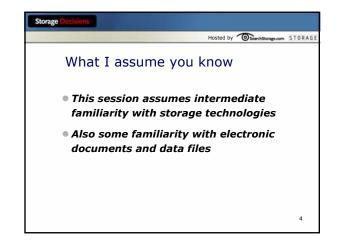
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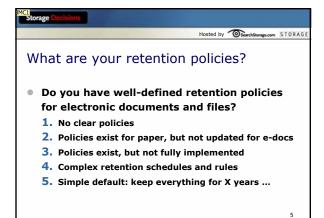
## Abstract

E-mail is the easiest and most visible part of the electronicrecords compliance problem. But other data types will face similar scrutiny, and they present different risks and more difficult problems.

How and when will your organization address retention and archiving of unstructured documents and data that are kept in file systems on servers and backup tapes? Or on desktop hard drives and CD-ROMs?

Learn how to: assess risks, determine requirements, utilize best practices, and evaluate emerging technologies





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# What are your retention practices?

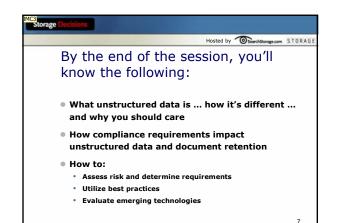
- What are you doing now, to capture and preserve electronic documents and files?
  - 1. No archive or backup
  - 2. Backup is the archive
  - 3. Using file-system, HSM or SRM tools
  - 4. Using content management or document archiving software
  - 5. Hoping for a better solution to emerge next year ...

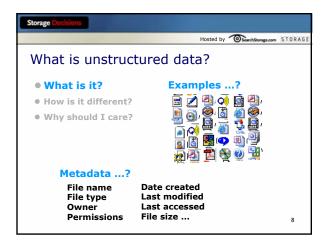
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JMC1 Make it more provocative. HOOK ?!!
Mike Casey, 5/23/2005
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# Slide 6

JMC4 Make it more provocative. HOOK ?!! Mike Casey, 5/23/2005





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## How is it different?

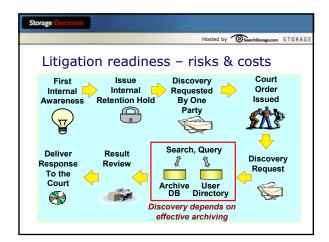
- Well, it's kind of ... you know ... unstructured ...
  - Harder to classify ... and get agreement
  - Harder to automate retention policy, with limited metadata
  - Requires more human intervention to declare or save a record
- People save too much of the wrong stuff, in the wrong place
- People save too little of the right stuff, in the right place
- Less immediate compliance pressure, but the problem keeps growing and the rules are changing, raising the bar ...
- Cost issues tend to dominate the conversation
  - What will it cost to comply?
  - What will it cost if we don't?

# Slide 7

JMC3 how how how ? Mike Casey, 5/23/2005

Storage Decisions			
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Why should I ca	re?		
Performance – service	e level, respons	se time, agility	,
Compliance – regulate	ory requiremen	ts and litigati	on risks
Costs – storage, admi	nistration, pro	ductivity	
<ul> <li>Costs – storage, admi</li> </ul>		ductivity	
<ul> <li>Costs – storage, admi</li> <li>DATA TYPES</li> </ul>		ESS NEEDS	Cost
	BUSIN	ESS NEEDS	Cost ++
DATA TYPES	BUSIN Performance	ESS NEEDS Compliance	

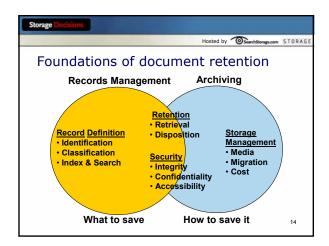
Storage Dec	isions					
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The	regula	tory co	omplia	nce la	indsca	ре
Financial Services		Health Services		Life Sciences		
Securities	Banking	Insurance	Health Insurance	Health Care	Drugs	Medical Devices
United Sta	tes:					
		Sarba	nes-Oxley	Act		
Gramm-Leach-Bliley Act		HIPAA		21 CFR 11, GxP		
Europe:						
Data Protection Act (UK) and similar laws implementing EU Directives			GMP Directive (EU)			
Global: Basel II			ISO	9000		



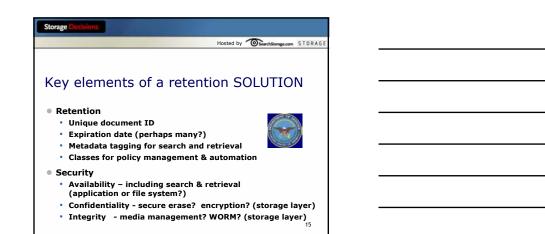


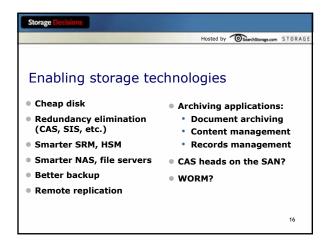


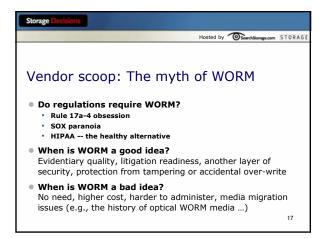


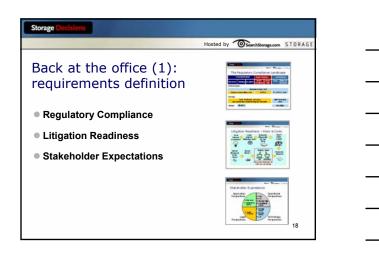


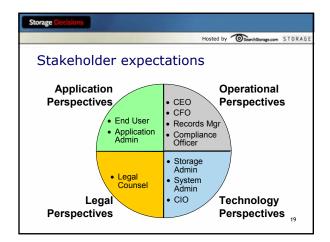












St	orage Decisions		Hosted by	SearchStorage.com STORA	GE
Ρ	Back at the office Policy developme <b>Example – retent</b>	nt			
	POLICY CHOICE		IMPACTS Litigation Readiness	Stakeholder Expectations	
	Save Almost Nothing				
	Selective Deletion				
	Selective Retention				
	Save Nearly Everything				



Storage Decisions				
		Hosted by	SearchStorage.com STORA	GE
Back at the office	(2):			
Policy developme	· · ·			
, ,				
Example – retent	ion period	5		
POLICY CHOICE		IMPACTS		
			Stakeholder	
	Compliance	Readiness	Expectations	
Many, Content Based				
Few, Organization Based				
One for All				
			21	-



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# Back at the office (3): Define architecture and processes

- Provide required and recommended capabilities for retention and security
- Use tiered storage to enable cost-effective retention, storage placement and migration over life cycle
- Start with point solutions and information silos if needed – but move toward an integrated archive and ILM architecture as technology evolves through 2008 272

## Storage Decision

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# Link compliance with tiered storage and ILM to minimize risks and costs

- Compliance initiatives minimize risk by establishing policies and processes for response to regulations – and for anticipating future regulations and standards
- The best policy response is commonly to retain more of the right data, for longer retention periods – and do it intelligently
- At the same time, look for "dead data" that can be deleted to liberate resources for storing the required data
- Tiered storage and ILM can help reduce storage and management costs, making increased data retention feasible and affordable 23

#### Storage Decisions

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## Conclusions

- Recognize that unstructured data is different
  - Harder to manage and automate
  - Easier to ignore, in the short term
  - Potentially the biggest area of cost and risk, over the longer term
- Understand the common compliance goals and technical capabilities
- Start with business needs assessment compliance, litigation and stakeholder requirements
- Use standards and best practices to guide policies, processes and architecture
- Define tiered storage and ILM strategies to enable cost-effective retention and management of unstructured data 24

