



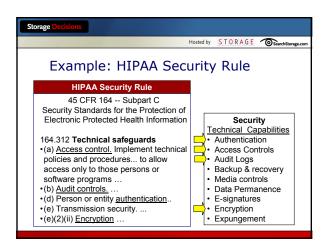
Storage Decisions					
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Compliance Requirements					
 A pat 	chwork of new	and changing	laws & reg	ulations	
Don't focus exclusively on one regulation or requirement					
Agency.	Laws / Regulations	Industry	Records	Retention	Focus
SEC	Rule 17a-4 17 CFR 240.17a-3,4	Securities: Broker-Dealers	Trading Records	2-6 yr+	Integrity
SEC	Sarbanes-Oxley 17 CFR 240.13a	Public Corporations	Financial, Audit	5 yr+	Integrity
FDA	21 CFR Part 11, 21 CFR 11, GxP rules	Drugs, Medical Devices	R&D, Test, Mfg, etc.	3 yr+	Integrity
DHHS	HIPAA 45 CFR 164	Health Care, Insurance	Patient Health Info	10 yr+	Privacy, Security
Fed,OCC, FDIC	GLBA 12 CFR 30	Securities, Banking, Insur.	Customer Info	5 yr+	Privacy, Security



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New Rules: Moving From Scary to Safe

- New laws, regulations and enforcement guidelines can be scary
- Key: Understand the common requirements!
- Agencies translate public policy goals into
- requirements for data retention and security
- Security objectives include integrity, confidentiality and availability
- Regulations prescribe capabilities to meet these goals – some general, some very specific



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Litigation Risks & Discovery Costs

- Electronic documents now a key focus of discovery
- Failure to keep and produce records can be expensive:
 Bank of America fined \$10 M for failure to produce records (among other things)
 - Recovering email can be enormously costly
 Cost to recover 250,000 e-mails from 5,000 backup tapes is US \$10M. CNI Research
 - Generally speaking, producing party pays costs
 Another risk: lost credibility, adverse judgments
 - 83% of lawyers say their corporate clients are not prepared to retrieve and turn over electronic files

Storage Decisions Hosted by STORAGE Operations Retention Policy: Keep or Delete? Hurtful? Inflection point: Litigation risk is moving from archiving inhibitor to archiving driver Attempts to delete adverse documents backfire Usually the Problem is Not Having Documents

 Recommendation: Keep a complete, accessible archive of electronic documents & messages

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Operational needs

- Employees will save data, including e-mail, regardless of policy (they need it)
 - E-mail is a key productivity tool
 - A policy not followed is worse than no policy
 - One centrally managed archive is better than 1,000 PST files or 5,000 backup tapes
- A complete, accessible, secure business record protects corporate knowledge and IP
- Archiving improves service levels of production applications, and reduces server & storage costs

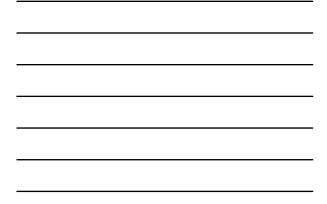
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Why Do Compliance Projects Fail?

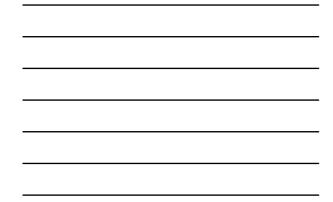
- Fail to get agreement between business and technical people on policy objectives
- Focus on technology first
- Focus on a single regulation
- Not addressing litigation discovery issues
- Tactical silo solutions no enterprise approach

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Engag	ing the Right	Stakeholders
Business Perspectives	CFO General Counsel Compliance Officer Records Management	Are we in compliance? How will e-mail & e-docs affect liability? How does it impact litigation discovery? How do we ensure consistency? What is the risk/cost analysis? How does this fit into current RM Policy?
Application Perspectives	Application Administrator	Can I keep application server available? How do I manage discovery requests? How do I keep my SLAs? How do I avoid manual processes?
Storage Perspectives	 Storage Administrators System Administrators 	How can I prevent e-mail from overwhelming storage? How do I manage capacity, backups, DR? Can this be handled consistently? How do I avoid manual processes?



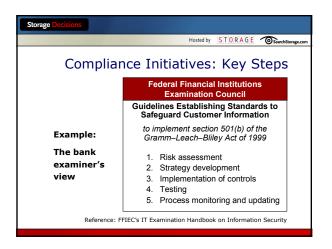
Storage Decisions			
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Engaging the Right Stakeholders, II			
Business Perspectives	 CFO General Counsel 	Are we in compliance?	
reispeetives	Compliance Officer	How will e-mail & e-docs affect liability?	
	 Records Management 	How does it impact litigation discovery?	
		How do we ensure consistency?	
		What is the risk/cost analysis?	
		How does this fit into current RM Policy?	

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Engaging the Right Stakeholders, III			
Application Perspectives	 Application Administrator 	Can I keep application server available?	
		How do I manage discovery requests?	
		How do I keep my SLAs?	
		How do I avoid manual processes?	



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Engag	ing the Right	Stakeholders IV
Storage Perspectives	 Storage Administrators System Administrators 	How can I prevent e-mail from overwhelming storage?
		How do I manage capacity, backups, DR?
		Can this be handled consistently?
		How do I avoid manual processes?







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Step One: Assessment

- Involve management & cross-functional team
- Establish an effective process for assessment & policy development
- Assess risks and needs
- Understand compliance, litigation and operational requirements
- Also requires understanding of archiving and storage capabilities

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Step Two: Policy Development

- Focus first on what to save, not how to save it
- Identify applications with regulated data
- Build consensus on retention & retrieval
 - Business owners, records management, applications, storage ... include CFO, legal, compliance, security
- Document the archival policy
 - Types of data (scope)
 - Retention periods (duration)
 - Archival processes
 - Compliance processes

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Symptoms of Policy Confusion

- Waiting for requirements to come down from policy committee
- Focus on a single regulation
- Insistence on 90-day deletion policy
- Confusion about the need for WORM
- Inability to move forward (TCO fear)



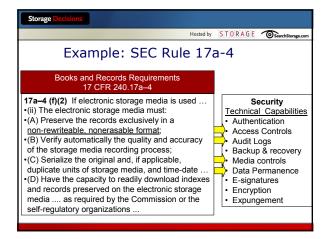


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Step Three: Implementation "How to Save It"

- Security objectives include integrity, confidentiality and availability
- Regulations prescribe controls to meet these goals – some general, some very specific
- Controls include administrative, physical and technical capabilities





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Technical Capabilities: Storage Technology Examples

- <u>Data integrity</u>: Permanent, tamper-proof recording is an extra-strength capability for ensuring data integrity
 - WORM functionality is specified by SEC Rule 17a-4, which applies only to broker-dealers
 - WORM may also prove useful in other cases, like SANs
 - Other capabilities such as retrieval speed may be more important. Assess your business needs!
- <u>Confidentiality</u>: Privacy rules point to <u>encryption</u> as a safeguard for data at risk. Do that risk assessment!
 <u>Expungement</u> – secure, physical erasure – is an extra-strength capability for confidentiality – e.g., DoD 5015.2

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Compliance Enabler: Nearline Storage

- Compliance is a catalyst for nearline storage deployment
- Organizations need to save more data, keep it longer, and access it quickly
- Intelligent storage policies and infrastructure can enable cost-effective compliance
 - Make compliance cost-neutral

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Lessons Learned: Best Practices in Compliance

- Save more, intelligently
- Build policy consensus before starting technical implementation
- Look at data first from an application viewpoint, not a block basis
 - Storage managers must talk with application owners!



Move toward an enterprise data archive



