How to Prepare for an Audit

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A Chronology of Data Breaches

Posted April 20, 2005 Updated August 4, 2009

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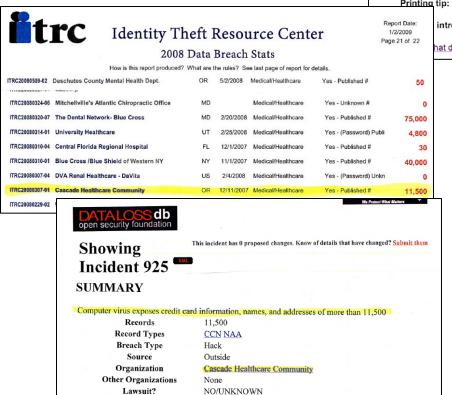
HOME

A Chronology of Data Breaches

Printing tip: Use the "landscape" setting for best results when printing the breach list.

introductory text and go directly to the listing of data breaches below.

nat does the Chronology of Data Breaches contain?



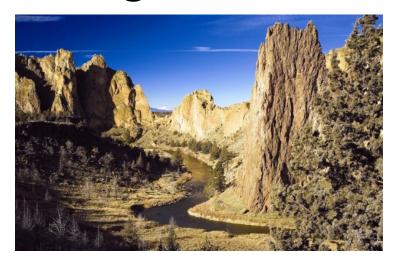




2011 OIG Audit Findings

7 hospitals

- □ 151 vulnerabilities
 - 124 to be high impact
 - 24 to be medium impact
 - 3 to be low impact



High Vulnerability – may result in highly costly loss of major tangible assts or resources; may significantly violate, hard or impede an organization mission reputation or interests; may result in human death or serious injury

HHS national rollup review of the Centers for Medicare & Medicaid Services HIPAA Oversight http://healthcarecompliance101.com/2011/05/20/oig-audit-report-of-hipaa-security-of-hospitals/

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- Centralized documentation
 - □ Policies and Procedures
 - □ Current Risk Analysis
 - Disaster recovery/emergency mode of operations plan
 - Incident response investigation documentation
 - □ Control testing and documentations
 - Application Layer
 - Infrastructure Layer
 - Enterprise Controls

Logical Access - 2012



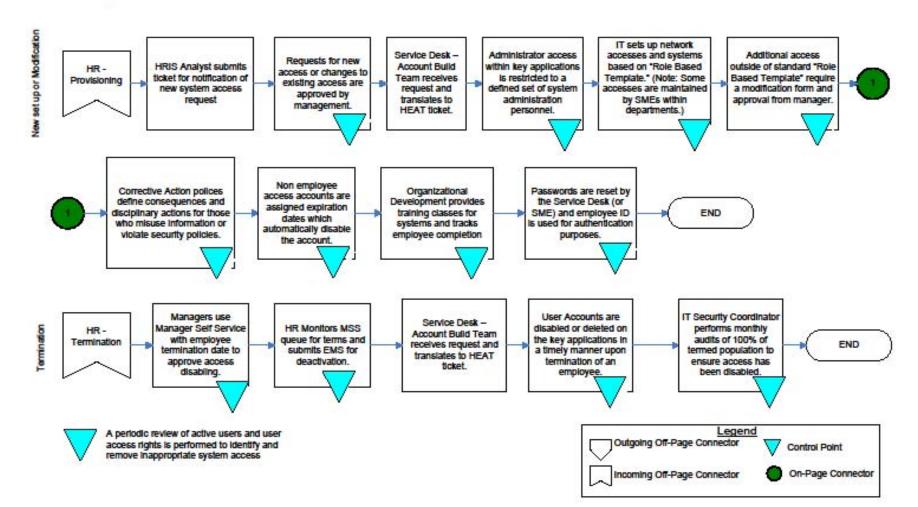
A security policy is in place that provides guidance for information security within the organization and includes within its scope all aspects of the IT environment relevant to financial reporting applications and data.



Physical access to computer facilities that house the key applications is restricted to appropriate personnel.



Strong password controls are enforced to safeguard against unauthorized access.



TESTING RESULT / FINDINGS

Steps Performed:

Test Script Review:

- 1) Obtain the entity's Password Policy (if any)
- From the corresponding control contact, obtain screen shots (or other documentary evidence) of password configurations for each layer of the in-scope application (application, database, server).
- For each layer per application, ensure passwords contain a) periodic expiration, b) complexity (num, letters, and/or symbols), and c) minimum length as stated in policy.
- 4) Note any exceptions

Round 1								
Testing Sample:	Application	Layer	Step 3.a	Step 3.b	Step 3.c	Pass (Yes, No)?	Work Paper REF	Notes
1	Ap 1	Application	0	0	0	Yes	ITGC.1.1.a	b
2	Ap 1	Database	0	0	Φ	Yes	ITGC.1.1.b	Ь
3	Ap 1	Server	0	7	Φ	No	ITGC.1.1.c	a, b
4	Ap 2	Application	0	0	0	Yes	ITGC.1.2.a	Ь
5	Ap 2	Database	0	0	0	Yes	ITGC.1.2.b	b
6	Ap 2	Server	0	0	0	Yes	ITGC.1.2.c	Ь
7	Ap 3	Application	0	0	0	Yes	ITGC.1.3.a	Ь
8	Ap 3	Database	0	0	0	Yes	ITGC.1.3.b	Ь
9	Ap 3	Server	0	0	0	Yes	ITGC.1.3.c	Ь

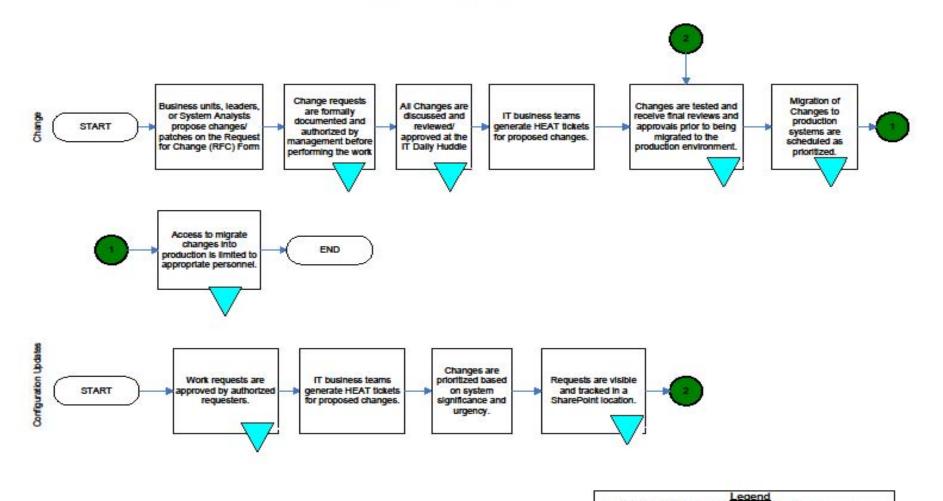
Notes: Notes Review:

a) Passwords have no complexity at the server level for Ap 1
 b) Entity Policy on Passwords is in DRAFT only

Observations/Conclusions: Observation / Conclusions Review:

ID	Control Description	Ap 1	Ap 2	Ap 3	Ap 4
HIPAA 1	Strong password controls are enforced to safeguard against unauthorized access.	FAIL	PASS	PASS	PASS
HIPAA 2	User Accounts are disabled or deleted on the key applications upon termination of an employee.				
НІРАА З	Administrator access within key applications is restricted to a defined set of system administration personnel.				
HIPAA 4	A review of user accounts and their associated access levels is performed and adequately documented to ensure appropriate access to the system.				
HIPAA 5	Change requests are formally documented and authorized by management before performing the work.				
HIPAA 6	Monitoring procedures are designed to provide reasonable assurance around completeness and timeliness of system and data processing.				

Change Management - 2012



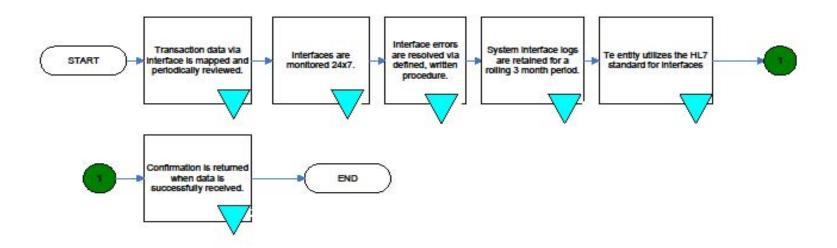
Outgoing Off-Page Connector

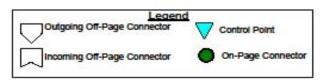
Incoming Off-Page Connector

Control Point

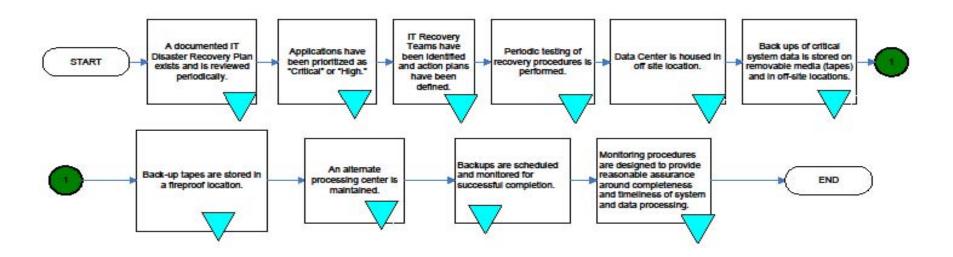
On-Page Connector

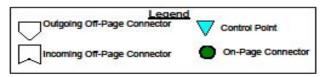
System Interfaces - 2012





Disaster Recovery - 2012





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- Develop a compliance plan
 - □ Engage impacted departments
 *IT *HR *Business *Internal Audit
 - □ Combine other compliance assessment activities
 - *PCI *Financial *HR
- Evidence of Compliance
 - Design effectiveness
 - □ Operational effectiveness

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- Top of the list compliance focus includes:
 - □ Policies and Procedures
 - Workforce training (new an on-going)
 - □ Audit program (periodic & annual)
 - Incident response (including breach response)
 - □ Risk analysis & risk mitigation



- High risk areas include lack of:
 - On-going risk management
 - Current disaster recovery and emergency mode of operations plan
 - Encryption of any transmitted or transported electronic PHI
 - □ Access control
 - □Risk assessment



HIPAA Security Series

- 1 Security 101 for Covered Entities
- 2 Security Standards: Administrative Safeguards
- 3 Security Standards: Physical Safeguards
- 4 Security Standards: Technical Safeguards
- **5** Security Standards: Organizational, Policies and Procedures and Documentation Requirements
- 6 Basics of Risk Analysis and Risk Management
- 7 Security Standards: Implementation for the Small Provider

http://www.hhs.gov/ocr/privacy/hipaa/administrative/securityrule/securityruleguidance.html

Guidance of Risk Analysis Required under the HIPAA Security Rule http://www.hhs.gov/ocr/privacy/hipaa/administrative/securityrule/rafinalguidancepdf.pdf

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- High risk areas include lack of (continued):
 - Compliant data backup and recovery
 - □ Remote access management
 - Wireless access
 - □ Audit control
 - □ Person or entity authentications
 - Documentation plan to address OCR or state investigation and audits



Sample - Interview and Document Request for HIPAA Security Onsite Investigations and Compliance Reviews

- 1. Personnel that may be interviewed
 - President, CEO or Director
 - HIPAA Compliance Officer
 - Lead Systems Manager or Director
 - Systems Security Officer
 - Lead Network Engineer and/or individuals responsible for:
 - o administration of systems which store, transmit, or access Electronic Protected Health Information (EPHI)
 - o administration systems networks (wired and wireless)
 - o monitoring of systems which store, transmit, or access EPHI
 - o monitoring systems networks (if different from above)
 - Computer Hardware Specialist
 - Disaster Recovery Specialist or person in charge of data backup
 - Facility Access Control Coordinator (physical security)
 - Human Resources Representative
 - Director of Training
 - Incident Response Team Leader
 - Others as identified....



Sample - Interview and Document Request for HIPAA Security Onsite Investigations and Compliance Reviews

- 2. Documents and other information that may be requested for investigations/reviews
 - a. Policies and Procedures and other Evidence that Address the Following:
 - Prevention, detection, containment, and correction of security violations
 - Employee background checks and confidentiality agreements
 - Establishing user access for new and existing employees
 - List of authentication methods used to identify users authorized to access EPHI
 - List of individuals and contractors with access to EPHI to include copies pertinent business associate agreements
 - List of software used to manage and control access to the Internet
 - Detecting, reporting, and responding to security incidents (if not in the security plan)
 - Physical security
 - Encryption and decryption of EPHI
 - Mechanisms to ensure integrity of data during transmission including portable media transmission (i.e. laptops, cell phones, blackberries, thumb drives)
 - Monitoring systems use authorized and unauthorized
 - Use of wireless networks
 - Granting, approving, and monitoring systems access (for example, by level, role, and job function)
 - Sanctions for workforce members in violation of policies and procedures governing EPHI access or use
 - Termination of systems access

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- Session termination policies and procedures for inactive computer systems
- · Policies and procedures for emergency access to electronic information systems
- Password management policies and procedures
- Secure workstation use (documentation of specific guidelines for each class of workstation (i.e., on site, laptop, and home system usage)
- Disposal of media and devices containing EPHI

b. Other Documents:

- Entity-wide Security Plan
- Risk Analysis (most recent)
- Risk Management Plan (addressing risks identified in the Risk Analysis)
- Security violation monitoring reports
- Vulnerability scanning plans
 - Results from most recent vulnerability scan
- Network penetration testing policy and procedure
 - o Results from most recent network penetration test
- List of all user accounts with access to systems which store, transmit, or access EPHI (for active and terminated employees)
- Configuration standards to include patch management for systems which store, transmit, or access EPHI (including workstations)
- Encryption or equivalent measures implemented on systems that store, transmit, or access EPHI

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- Organization chart to include staff members responsible for general HIPAA compliance to include the protection of EPHI
- Examples of training courses or communications delivered to staff members to ensure awareness and understanding of EPHI policies and procedures (security awareness training)
- Policies and procedures governing the use of virus protection software
- Data backup procedures
- Disaster recovery plan
- Disaster recovery test plans and results
- Analysis of information systems, applications, and data groups according to their criticality and sensitivity
- Inventory of all information systems to include network diagrams listing hardware and software used to store, transmit or maintain EPHI
- List of all Primary Domain Controllers (PDC) and servers
- Inventory log recording the owner and movement media and devices that contain EPHI

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- Current Risk Assessment
- Prioritize high to low risk compliance gaps
- Assign resources to eliminate privacy and security compliance gaps
- Track and document compliance project status
- Document mitigation activity
- Store all centrally

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- Have the right staff identified; staff that know how to talk to an auditor; know their processes; know the detail of the evidence
- This amounts to more than adopting required policies and procedures – compliance is an ongoing process
- Need to demonstrate continued compliance activities (not a "one time" event)

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- Key to surviving an audit unscathed
 - current and accurate documentation that is easily accessible
- CE bear the burden of demonstrating compliance
- The time is now to address compliance gaps
- Periodically review OCR website for new and changing information

Questions

