

Is your privacy secure?

HIPAA Compliance Workshop September 2008

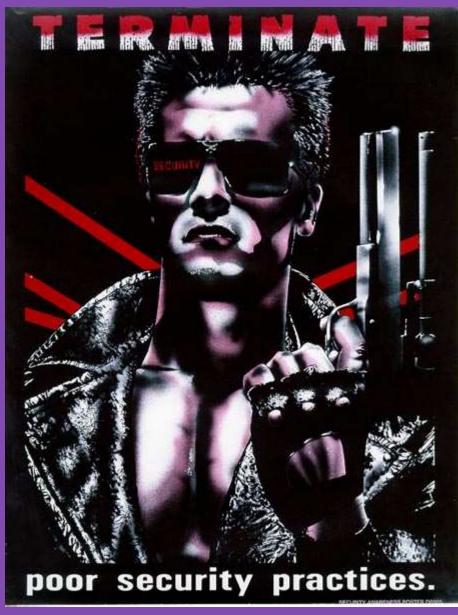
Presented by:

Andrés Castañeda, Senior Manager Steve Nouss, Partner

Agenda



- Have you secured your key operational, competitive and financial information?
- IT control options to secure your key information
- IT control options to prevent fraud
- Case study: How HIPAA helped the healthcare industry protect their confidential information
- Case study: How to protect key information in different areas of your business



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In the news...

Sentry Insurance Customer
Data Sold by Thief
Duluth News Tribune

Education Department working to fix software after student loan data breach

StarTribune.com

Hacker swipes PortTix data

Portland Press Herald

CPA group says hard drive
with data on 330,000
members missing (AICPA)
computerworld.com

Insurance firm posts private data breach to customers (Blue Cross Blue Shield of NC)

Infowatch.com

IRS Laptop Lost With

Data on 291 People

Data on www.washingtonpost.com

Veterans Affairs warns of massive privacy breach securityFocus.com

Bank security breach may be biggest yet: Account info at Bank of America, Wachovia sold by employees; more arrests expected, N.J. police say.

CNN Money

Breach exposes H&R Block customers' tax records

News.com

Gartner Group analysis:

- By the end of 2007, 75% of enterprises were infected with undetected, financially motivated, targeted malware that evaded their traditional perimeter and host defenses.
- The threat environment is changing financially motivated, targeted attacks are increasing. Automated malware generation kits allow quick, simple creation of thousands of variants, but our security processes and technologies haven't kept up.

What information is important to your organization?



Payroll Information



Proprietary Information



Acquisition Targets



Financial Information



Cost Structure



Supplier Information



Client Listing



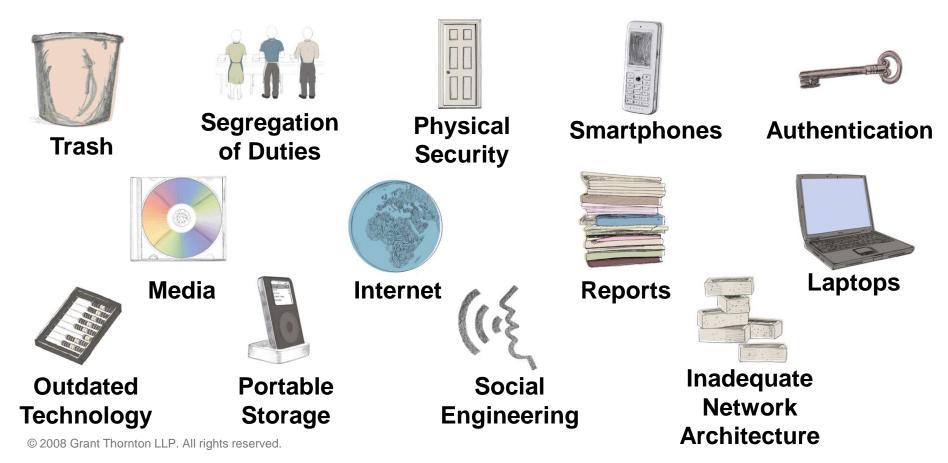
R&D Information

- Securing your organization's information involves:
 - Preventing unauthorized access
 - Preventing unauthorized transmission
 - Preventing accidental or intentional destruction
 - Preventing unauthorized modifications

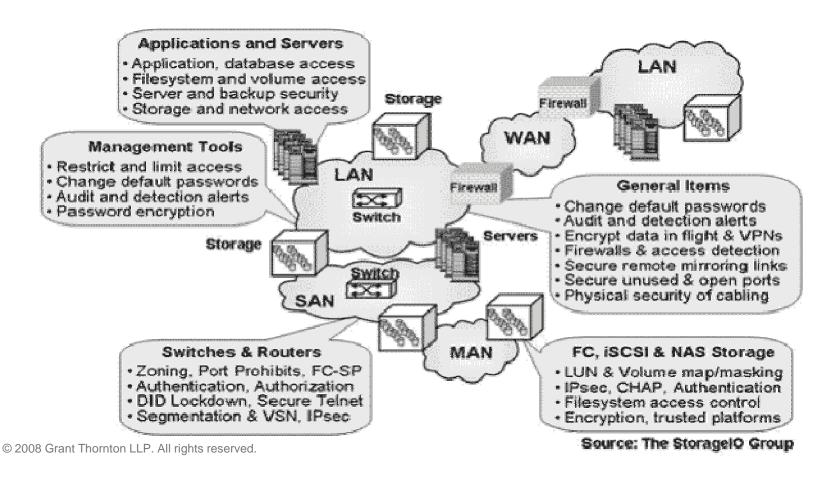
What are the threats?

- Threats to data security can be grouped into three categories:
 - Physical threats e.g. hurricane, fire, theft, flood, and power outages
 - Human error e.g. careless disposal of information, sharing access information, social engineering techniques and transmitting data using non-secure channels
 - Malicious activities e.g. malicious damage, corporate espionage, viruses and fraud

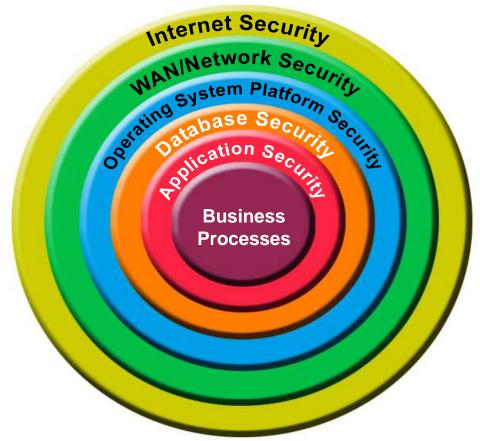
What are some of the weak points?

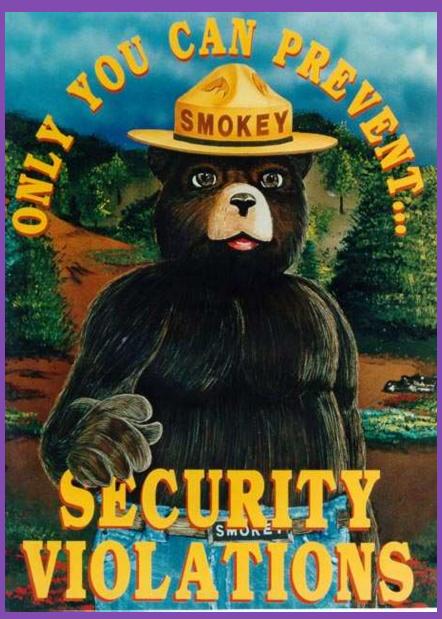


Common risk areas for the information



At what levels should security be implemented?





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IT control options to secure your key information: How can you secure your data?

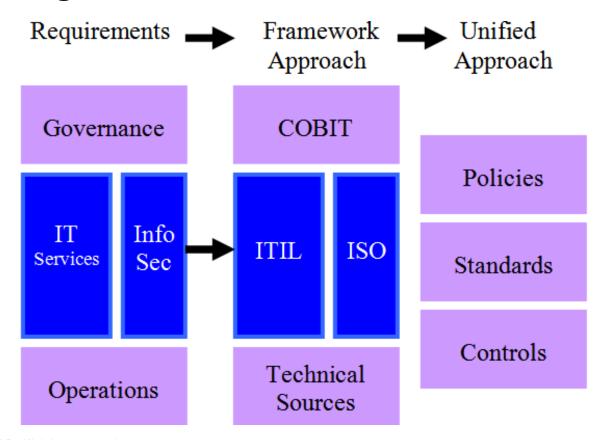
- Logical security e.g. passwords, segregation of functions, encryption, firewalls, antivirus software
- Physical security e.g. restricted access to the data room, networking cabinets, tokens and workstations
- Network infrastructure multi-tiered data protection schema with multiple levels of protection to ensure that data is protected if a layer is compromised

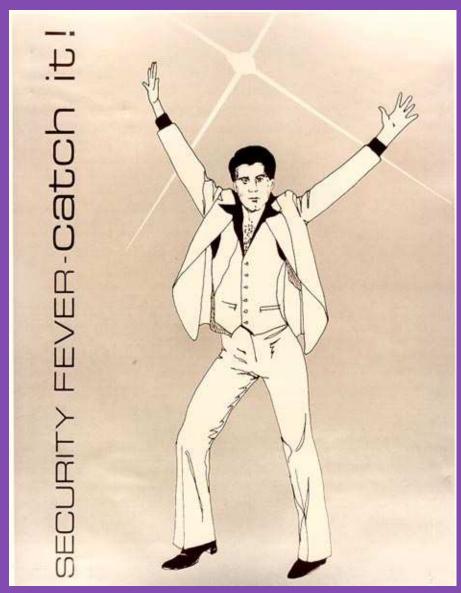
IT control options to secure your key information How can you secure your data? (cont.)

- Backups e.g. backup strategy, offsite storage and recovery strategy
- Data Loss Prevention (DLP) Implementing a DLP that ensures protection of the sensitive data during storage and transmission by allowing for:
 - content inspection
 - automatic protection of sensitive data
 - incident response workflow

IT control options to secure your key information How can you secure your data? (cont.)

Implementing an IT control framework:



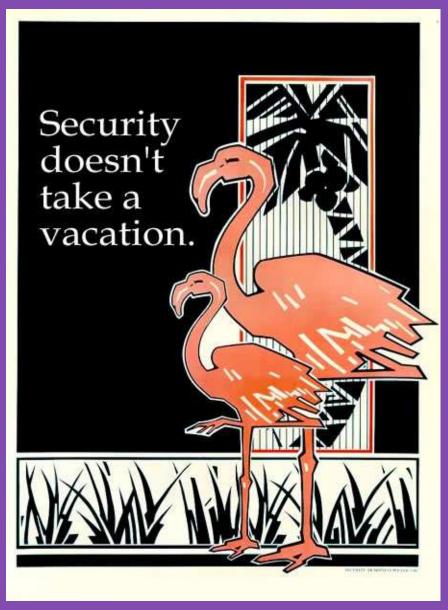


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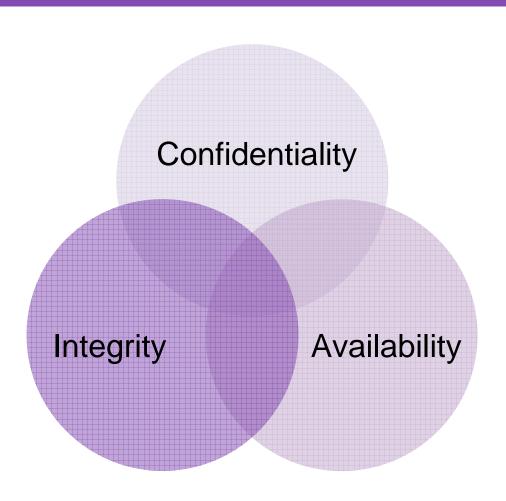
IT control options to prevent fraud

How can IT help prevent fraud?

- Enforce segregation of duties
- Log sensitive transactions
- Generate automated exception reports
- Allow ongoing monitoring of the IT environment
- Safeguard sensitive data
- Restrict user access to all layers of the IT stack



HIPAA forever impacted the internal and external operations of the healthcare industry by protecting both employees and patients under Federal law. While HIPAA regulations are not entirely IT related, information security plays a vital role in complying with HIPPA. In fact, two of the four main objectives of HIPAA are directly related to information security, including the reduction of fraud and abuse, and the safeguarding of Protected Health Information.



Confidentiality:

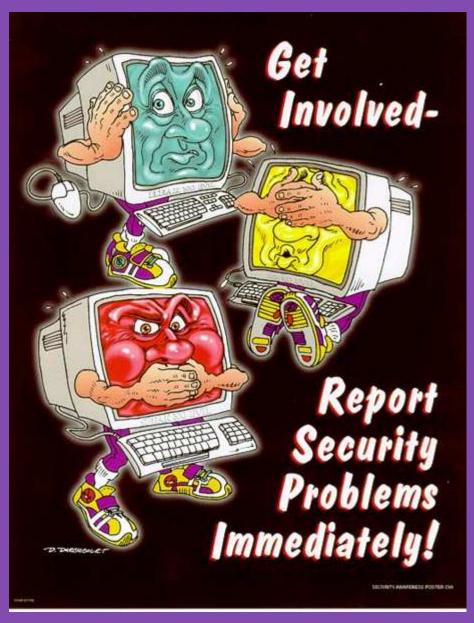
- "The property that data or information is not made available or disclosed to unauthorized persons or processes."
- Providers must protect against unauthorized
 - -Access
 - Users
 - Disclosures

Integrity: "The property that data or information has not been altered or destroyed in an unauthorized manner."

- Providers must protect against improper destruction or alteration of data
- They must also provide appropriate backup in the event of a threat, hazard, or natural disaster

Availability: "The property that data or information is accessible and usable upon demand by an authorized person."

- Must guard against threats and hazards that may deny access to data or render the data unavailable when needed
- Must provide appropriate backup in the event of a threat, hazard, or natural disaster
- Must provide appropriate disaster recovery and business continuity plans for departmental operations involving electronic protected health information (ePHI).



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- Segregation of the ability to receive and buy goods
- Access controls to the receiving function
- Access controls to the purchasing function
- Monitoring of unusual transactions



- Segregation of the ability of creating and approving payments using the online banking application
- Security tokens to access the online banking application
- Digital certificates to access the online banking application
- Encryption of information



- Segregation of the ability to maintain the inventory levels and participation in the inventory control processes
- Restriction to adjust the inventory levels
- Ongoing monitoring of inventory levels
- Automated inventory control processes



- Restriction to modify the payroll information
- Encryption of the payroll information
- Segregation of duties to ensure that the person who approves time reports does not prepare, disburse, or reconcile payroll
- Reporting of changes to the payroll data



- Segregation of the ability to receive and buy goods
- Access controls to the receiving function
- Access controls to the purchasing function
- Monitoring of unusual transactions







For additional information, contact:

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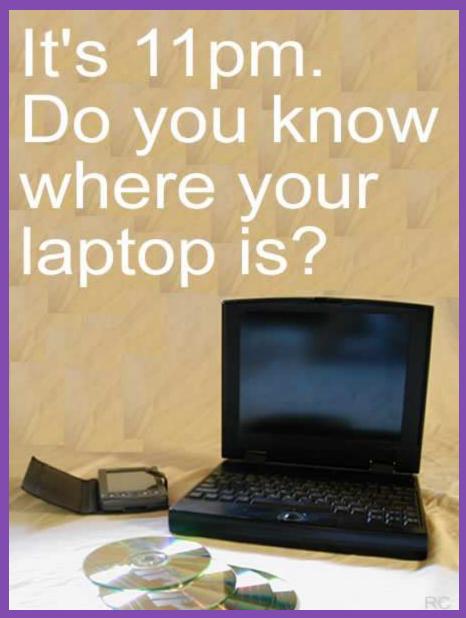
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