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Session Objective



- Challenges
- HIPAA Requirements
- Seven Steps to HIPAA Security
- Access Control
- RBAC
 - Information Access Control Security Policy
 - RBAC System Characteristics
 - Developing a RBAC Solution
 - Getting Started
 - Implementation Challenges



Challenges



- Increasing demand for moving mission critical applications on-line
 - This requires access to PHI based on the user's function
- Identities of authorized users and transactions are constantly changing
 - Organizations require a solution that supports robust authorization capabilities
- Number of users and applications is increasing within most organizations
 - Requires a scaleable solution to manage authorized access



Privacy's Minimum Necessary



- HIPAA Privacy Rule requires that the covered entity must identify:
 - Who needs access to PHI
 - What type of access and if there are to be any restrictions associated with such access
- Central aspect of the Privacy Rule is the principle of "minimum necessary" use and disclosure



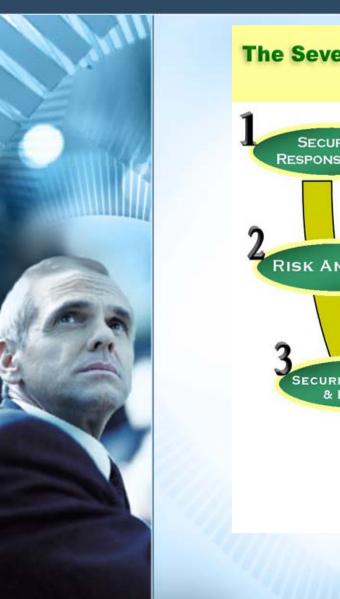
Security's Access Control

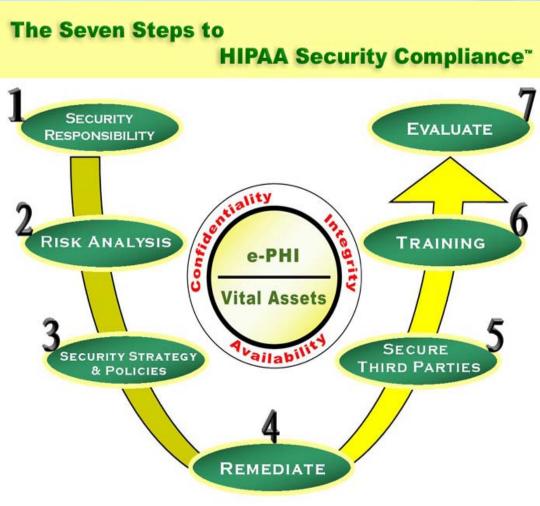


- The Final Security Rule requires these standards to be implemented:
 - Information Access Management
 - Access Authorization
 - Access Establishment and Modification
 - Access Control
 - Unique User Identification
 - Emergency Access Procedure
 - Automatic Logoff
 - Encryption and Decryption



Seven Steps to HIPAA Security







Access Control



- Access control, also referred to as authorization, refers to:
 - What the user can do
 - What the user can access
- Access control enables businesses to restrict individual access to resources
 - Allowing access only by privileged entities with a business need to access
- Defense-in-depth:
 - Authentication
 - Access control



Types of Access Control



- Role Based Access Control (RBAC)
- Discretionary Access Control (DAC)
- Mandatory Access Control (MAC)
- Context Based Access Control



RBAC



What is RBAC?

RBAC allows disclosures to authorized users while preventing disclosures to unauthorized users

- Stems from:
 - Minimum Necessary Standard for HIPAA Privacy
 - Access Control Standard in Security Rule



Why RBAC?



- Using RBAC has several advantages compared to other access control mechanisms
 - Simplifies access definitions, auditing and administration of security access rights
 - The delegation of access rights does not occur at the discretion of any user (even the security administrator)
 - Users are given only the access privileges necessary to perform their duties or role
 - Updates can be done to roles instead of updating privileges for every user on an individual basis



Security Policy



- First develop the Information Access Control Security Policy
- Objective of policy
 - The confidentiality and integrity of information assets stored within systems must be protected
 - Only authorized users must have access to specific defined, documented and approved systems and applications
- Clearly articulate RBAC requirements



Getting Started with RBAC



- Step 1: Define all roles within the organization
- Step 2: Next step is to do a complete inventory of all active applications
- Step 3: Identify the RBAC solution to meet objectives
- Carefully plan the implementation to ensure successful operation!



RBAC System Characteristics



- The characteristics of an RBAC system are:
 - "Roles" map to organization structure
 - Each "role assigned minimum access privileges
 - Each employee then assigned one or more roles that determine their level of access



RBAC Solution Requirements



- Any RBAC product solution must support requirements such as:
 - Scalability
 - Inheritance
 - Multiple roles
 - Types of access
 - Auditing and logging
 - System administration
 - Customization





Implementation Challenges



- RBAC policies and procedures must be clear, complete and rigorously followed
- Specifically:
 - Lay out the procedures for access requests
 - Establish an approval policy for modification to procedures
 - Establish an approval policy for user ID requests
- Establish a firm timeline for RBAC implementation



Thank You!



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