



Deloitte & Touche

A Framework Approach to HIPAA Security Readiness

March 13, 2002

Why Use a Framework Approach?

- HIPAA tells you "what to do", but not "how to do it", which means some level of interpretation of the requirements will be necessary by your organization. What makes sense for your organization?
- Organizations can have multiple sites, applications and processes. How do you determine what areas to assess for HIPAA security readiness? How do you decide what requirements will apply to what areas?
- Your HIPAA security readiness assessment is complete and you have a list of gaps. How do you take the gaps identified in the HIPAA readiness assessment and develop them into actionable projects to address those gaps?
- Typically, addressing HIPAA security readiness will mean executing a number of projects at the same time, which will be competing for sometimes the same resources. How do you effectively manage the execution of multiple projects?



HIPAA Security Readiness Framework - Overview

Phase 2: Phase 1: Phase 3: Phase 4: **Phase** Design Functional Establish Program Define Regts **Determine Gaps** Management Öffice Decomposition Scope for Org Develop List HIPAA Security Define PMO Define "To-Be" State Requirements Requirements Activities Categories **Utilize Standard** Determine **Activities Develop Projects** Project Lifecycle **Applicability** Approach **Prioritize Projects** Organizational **Alignment Develop Budget** Management Approval **HIPAA** Security **Current Design HIPAA** Security Requirements Scope Matrix PMO Charter Strategy **Outputs** Interpretation Project Lifecycle Budget **C**riteria Approach Regence Regence

Phase 1: Current Design





Phase 1: Current Design - Functional Decomposition

"Framing Your Organization's Environment"

Sample Functional Areas	Examples
Processes	Membership and Enrollment; Claims Administration; Contract Management; Administration; Financial; Scheduling
Locations	Hospital; Outpatient Clinic; Off-site storage; Headquarters; Remote Sales office; Data Center
IT Environment	Wireless; WAN; LAN; Dial-up; WebServers; Workstations; Facilities; Databases
Applications	Laboratory; Radiology; Pharmacy; Order Entry; Nurse Management; Financial; Enrollment; Billing & A/R; Provider Management; Sales Management
Strategic Initiatives	Integrating the Healthcare Enterprise (IHE); Electronic Medical Records; Web-Enabling Clinical Applications; Electronic Data Interchange (EDI); Customer Relationship Management (CRM)



Phase 1: Current Design - List HIPAA Security Requirements

HIPAA Security Requirements

- Administrative Procedures
- Physical Safeguards
- Technical Security Services
- Technical Security Mechanisms
- **Electronic Signatures**

		AA Security juirements				
Administrative Procedures	.3 98(a)(1)	Certification				
	.3 \theta 8(a)(2)	Chain of Trust Partner Agreement				
	.3 98(a)(3)	Contingency Plan	Applications an data criticality analysis			
		Data backup plan				
			Disaster recovery plan			
			Emergency mode operation plan			
			Testing and revision			
	.3 08(a)(4)	Formal Mechanism for Processing Records				
	.3 98(a)(5)	Information Access	Access authorization			
		Control	Access establishment			
			Access modification			





Phase 1: Current Design – Determine Applicability

- ■HIPAA
 Security
 Requirements
 mapped
 against your
 environment
- ■Using the HIPAA security requirements, determine "First Cut" applicability to narrow assessment focus X
- Phase 2 will define what the X means

Current Design Matrix

					Proce	sses			Location		A	pplicat	ions	IT	IT Environment		
HIPAA Security Requirements				Claims / Encounters	Customer Service	Membership	Claims	Data Center	Headquarters	Remote Sales Office	Claims	Sales Management	Enrollment	Internet	WAN	Noi	
Administrative Procedures	.308(a)(1)	Certification									X	X	X	X	X	Х	
Hoteumes	.308(a)(2)	Chain of Trust Partner Agreement			20		X					6	20			103	
	.308(a)(3)	Contingency Plan	Applications and data criticality analysis					X	X	X	X	X	X	X	X	3	
			Data backup plan	X	X	X	X				X	X	X			2	
			Disaster recovery plan				33000	X	X	X	X						
			Emergency mode operation plan	X	X	X	X	X	X	X	754	55	NA .				
			Testing and revision	X	X	X	X	X	X	X	X	X	X			3	
	.308(a)(4)	Formal Mechanism for Processing Records		X	X	X	X				X	X	X				
	.308(a)(5)	Information Access	Access authorization								X	X	X	X	X	X	
		Control	Access establishment	V.	164						X	X	X	X	X	3	
			Access modification		22			4			X	X	X	X	X	3	





Phase 2: Requirements Interpretation







Define Reqts Scope for Org

Develop Requirements Categories





Phase 2: Requirements Interpretation

"Focus on the Current Design Matrix Cell" What does the X mean?

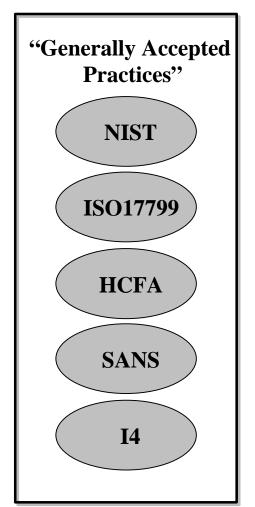
					Proce	sses			Location		Aj	pplicat	ions	IT I	Invironn	aer
HIPAA Security Requirements				Claims / Encounters	Customer Service	Membership	Claims	Data Center	Headquarters	Remote Sales Office	Claims	Sales Management	Enrollment	Internet	WAN	
Administrative Procedures	.308(a)(1)	Certification									X	X	X	X	X	
Tiotedules	.308(a)(2)	Chain of Trust Partner Agreement	8				X									
	.308(a)(3)	Contingency Plan	Applications and data criticality analysis					X	X	X	X	X	X	X	X	
			Data backup plan	X	X	X	X				X	X	X			
			Disaster recovery plan				3300.00	X	X	X	X					
			Emergency mode operation plan	X	X	X	X	X	X	X	.50	.Sie				
			Testing and revision	X	X	X	X	X	X	X	X	X	X			
	.308(a)(4)	Formal Mechanism for Processing Records	and a second sec	X	X	X	X	561			X	X	X	19		
	.308(a)(5)	Information Access Control	Access authorization								X	X	X	X	X	
		Collifor	Access establishment		56 Y				2 8		X	X	X	X	X	
			Access modification								X	X	X	X	X	





Phase 2: Requirements Interpretation – Develop Reqt's Categories

" Start with Generally Accepted Security Practices"



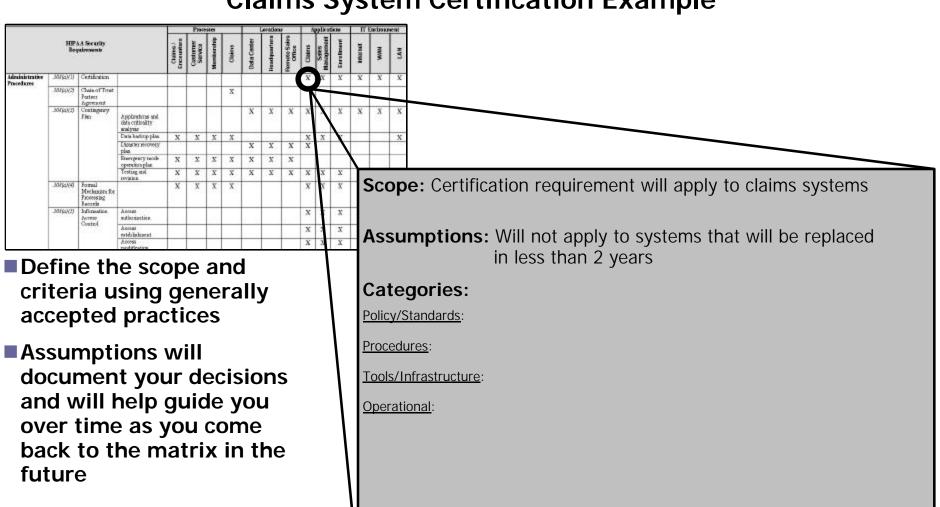
					Proce	sses]	Location			pplicat		ITI	Environ	nen
HIPAA Security Requirements				Claims / Encounters	Customer Service	Membership	Claims	Data Center	Headquarters	Remote Sales Office	Claims	Sales Management	Enrollment	Internet	WAN	
Administrative Procedures	.308(a)(1)	Certification									X	X	X	X	X	
Tivedules	.308(a)(2)	Chain of Trust Partner Agreement					X				00					
	.308(a)(3)	Contingency Plan	Applications and data criticality analysis					X	X	X	X	X	X	X	X	
			Data backup plan	X	X	X	X				X	X	X			
			Disaster recovery plan					X	X	X	X					
			Emergency mode operation plan	X	X	X	X	X	X	X	150	.55				
			Testing and revision	X	X	X	X	X	X	X	X	X	X			
	.308(a)(4)	Formal Mechanism for Processing Records		X	X	X	X	Sc			X	X	X			461
	.308(a)(5)	Information Access Control	Access authorization								X	X	X	X	X	
		Collifor	Access establishment		754			-			X	X	X	X	X	
			Access modification		S	5 13					X	X	X	X	X	(2)





Phase 2: Requirements Interpretation – Define Requirements Scope

" Claims System Certification Example"





Phase 2: Requirements Interpretation – Develop Reqt's Categories

"Logical Means of Grouping the Criteria to Measure Progress"

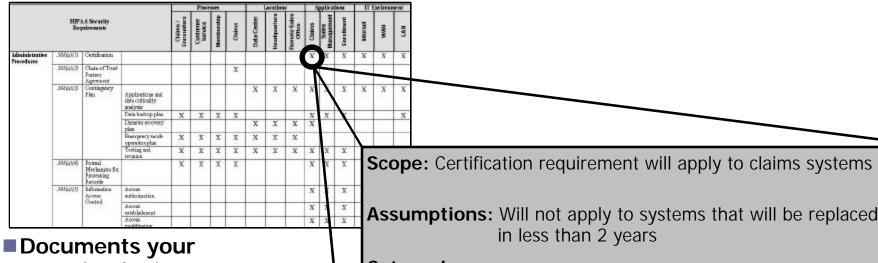
Category	Description
Policies and Standards	Policies include senior management's directives to create a computer security function, establish goals for the function, and assign responsibilities for the function. Standards include specific security rules for particular information systems and practices
Procedures	Procedures include the activities and tasks that dictate how the policies or supporting standards will be implemented in the organization's environment
Tools / Infrastructure	Tools or infrastructure include the elements that are necessary to support implementation of the requirements within the organization such as process, organizational structure, network and system related controls, and logging and monitoring devices
Operational	Operational includes all the activities and supporting processes associated with maintaining the solution or system and ensuring it is running as intended. Typically, an owner is assigned to manage the execution of the activities and supporting processes. Examples of activities and supporting processes include maintenance, configuration management, technical documentation, backups, software support and user support





Phase 2: Requirements Interpretation – Develop Reqt's Categories

" Claims System Certification Example Continued"



- Documents your organization's interpretation of the HIPAA security requirements
- Measurement for progress towards HIPAA security Readiness
- Documents your organization's baseline, since the criteria will also change over time – "Living" Document

Categories:
Policy/Standards:

1) Written policy that identifies certification requirements

2) Policy identifies individuals responsible for implementing that

policy and what their duties are 3) Policy identifies consequences of non compliance

4) Security Standards for the configuration of networks, security services and mechanism, systems, applications, databases, and

middleware

Procedures:

1) Identifying certification need review

2) Pre-certification review3) Certification readiness

4) Periodic Re-certification review

Tools/Infrastructure: 1) Pre-certification readiness tool

2) Certification criteria tool (standards)

3) Certification compliance issue resolution tool

Operational: 1) Operational when the following criteria are established:

Owner, Budget, Charter & Certification Plan





Phase 3: Gap Assessment





Phase 3: Gap Assessment – Determine Gaps

" Avoid the Road to Abilene by Getting Organizational Alignment "





Scope: Certification requirement will apply to claims systems

Assumptions: Will not apply to systems that will be replaced in less than 2 years

Categories:

Policy Standards:

2) Written policy that identifies certification requirements
2) Policy Identifies in Multituals reproduct for requirements
2) Policy Identifies in Multituals reproducte for implementing that policy and what their duties are 3) Policy Identifies correspond to for not compliance 4) Security Standards for the configuration of networks, such religious and their response of non-compliance in the configuration of networks, such as carries and the configuration of networks, and religious and their response of non-compliance in the configuration in the configuration and the configuration of networks, and religious and religious configuration in the configuration configuration in the configuration configur

■Use the HIPAA Security Criteria(Phase 2) to assess organization's current state HIPAA Gap Analysis

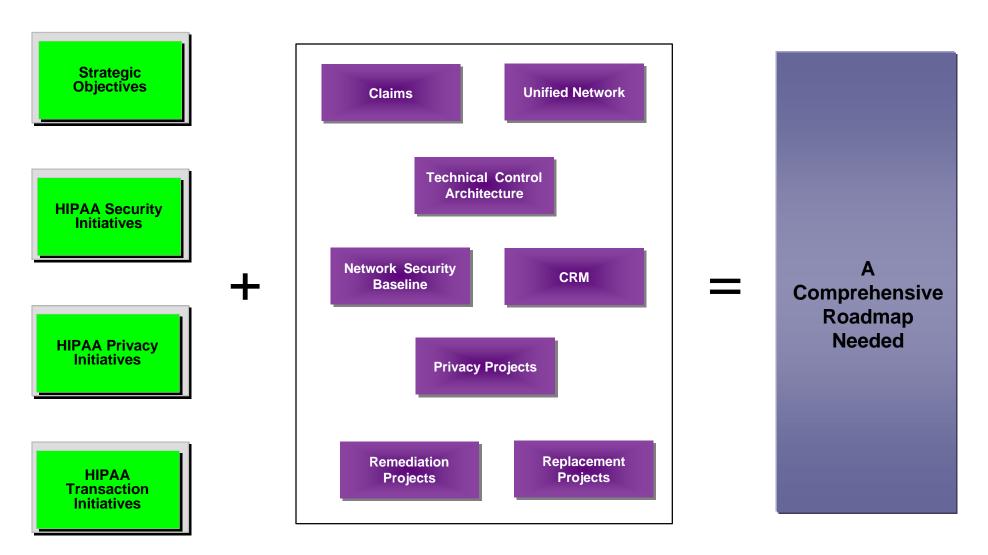
Determine gaps from the current state requirements





Phase 3: Gap Assessment – Define "To-Be" State

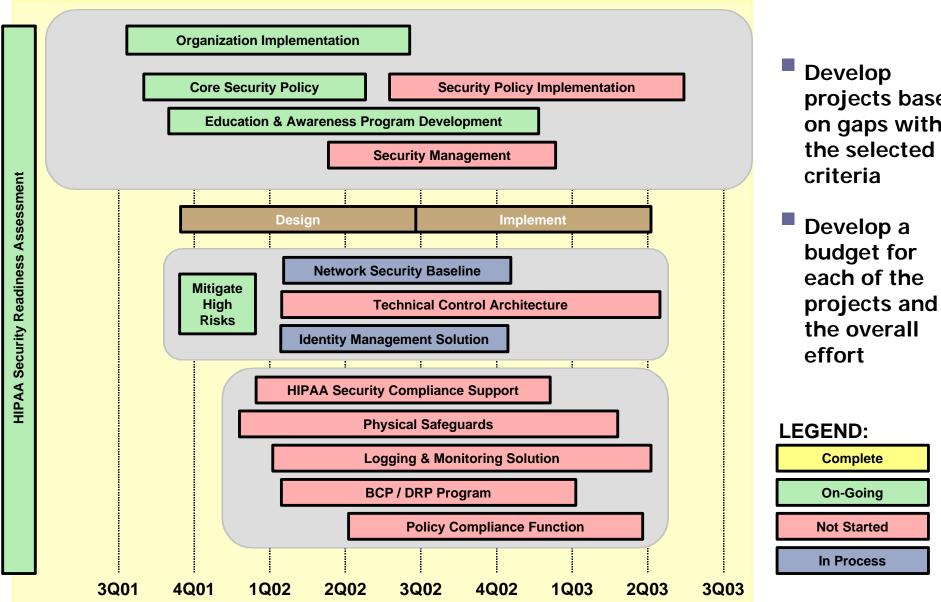
" HIPAA + To-Be State = Projects "







Phase 3: Gap Assessment – Define Projects and Prioritized



projects based on gaps with



Regence

Phase 3: Gap Assessment – Alignment, Budget and Approval



Gain organizational alignment around projects and schedule

Develop budget estimates for each project in terms of people, hardware and software





Obtain management approval and execute projects





Phase 4: Execution

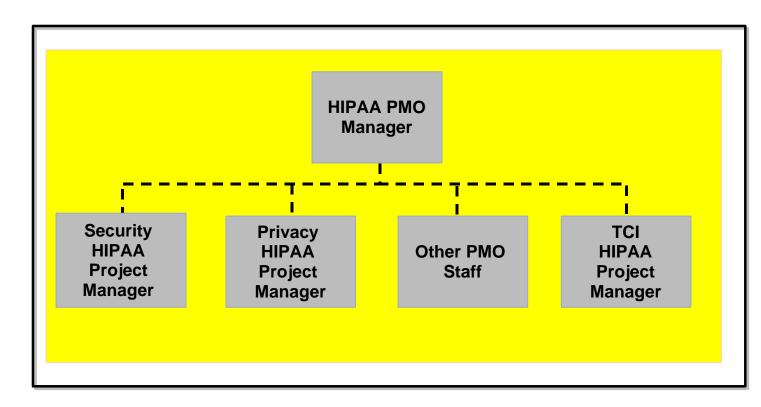




Phase 4: Execution - Establish PMO

" HIPAA Security Readiness is NOT an IT Project "

- Establish priorities
- Manage both organization and internal HIPAA dependencies
- Resolve project issues





Phase 4: Execution – Define PMO Activities

"Keeping Activities and Projects on Track"

Activities	Description
Provide Oversight for Multiple Projects	Prioritize projects, manage project interdependencies and corresponding critical path items
Manage the Allocation of Resources	"De-conflict" resource constraints and shortages resulting from multiple project demands
Manage Budget	Manage the budget for the HIPAA related projects
Resolve Issues	Facilitate resolution of issues both within projects and between cross-organizational departments
Report Status	Provide status reports on a periodic basis to oversight committees and management to report on the progress, issues and challenges of the overall program

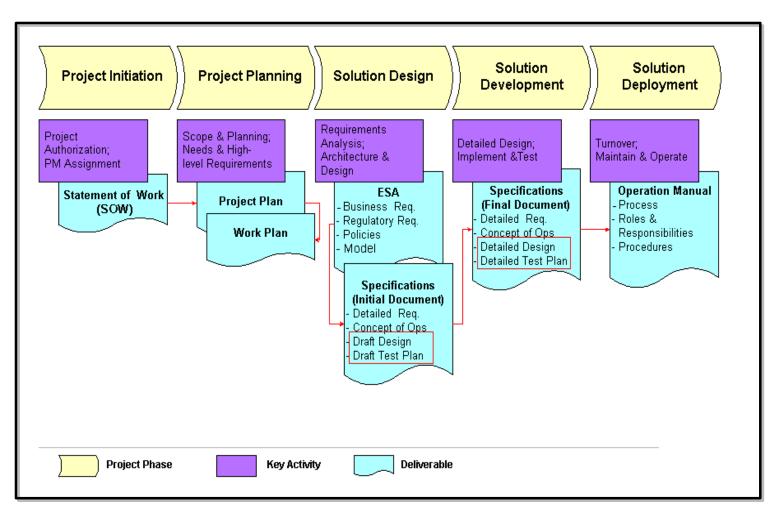




Phase 4: Execution - Utilize Standard Project Lifecycle

"Consistent, High-Quality Standards Among Different Projects"

- Streamline design and implementation activities
- Support standard set of project documentation







Summary – "Three Notable Truths"



#1 Develop your security strategy and stay committed to it over time – HIPAA security readiness is a marathon not a sprint

#2 Security = 99% process and 1% technology – if you cannot operationalize security, all you have is an "expensive" science project that will most likely provide partial effectiveness





#3 Develop and maintain active executive-level participation and governance - Security is a "cross-organizational" issue and lack of organizational buy-in can kill a project



