Architecture Development Cycle

Phase	Objectives	Inputs	Outputs	Subphases / Questions	Remarks
A. Initiation and Framework	 Consensus within the organization that a change is required Confirm the organization's business goals and strategic drivers Define an architectural vision Build a consensus in favor of the vision within the organization Define scope of architecture effort and constraints 	 Mission statement Financial constraints Time limits Current business system description 	Business requirements and key systems and architecture drivers Relevant business process Assumptions Business return given required changes First list of candidate re-usable building blocks ("business process driven list") Model of candidate building blocks showing interrelationships Organization sponsors Project management structure Plan for remaining phases		
B. Baseline description	High level description of the characteristics of the current system	 Existing system descriptions Existing architecture 	 A clear description of the current system and its functions A statement of the constraints imposed by the internal organization A statement of the constraints imposed by the business or external environments Relevant assumptions (e.g., financial, organizational, 	7	Documents the starting point for the architecture Lists the interoperability issues that the final architecture will take in account

			required technical	
			functionality)	
			 Additional list of 	
			candidate building	
			blocks ("baseline	
			driven list")	
			Current architecture	
			principles embodied in	
			current system	
C. Target	Identify a target	Baseline description	· · · · · · · · · · · · · · · · · · ·	senting the
architecture	architecture	from B		ne using the
		Business requirements	1	Group
		and architecture drivers		work to give a
		from A		on starting
		TOGAF TRM	the baseline system point	
		• External constraints	,	dering a
		Organizational	architecture from all number	
		constraints	are and are are are are	ectural views to
		D .		e that all aspects
		Business process driven list of candidate building	1	required
		blocks	detailed architecture system	-
		Baseline driven list of	definition of the consider	
			definition of the	ing a high-level
		candidate building		for the
		blocks	services archite	
			561,1665	ing the services
			proposed architecture requir	
			meets the business 5. Identi	
				ting business
			8	are met
			C E 11	lishing a set of
			model of the	a for service
			Architecture Building	
			Diocks. a list of the	ing the
			surraing status	ecture in detail
			selected to provide the	acting a gap
			services, and the	
			interfaces settiveen the	513
			building blocks; and a	
			diagrammatic	
			depiction of the	
			building blocks at the	

D. Opportunities and Solutions	 Identifies the parameters of change The major steps along the way Top-level projects required to go from the current environment to the target 	Analysis of how proposed architecture meets business goals and	levels needed to describe strategic and implementation aspects of the architecture • A gap analysis • A list of projects or work packages required to implement the proposed architecture • A description and model of the Solution Building Blocks		It will form the basis for the implementation plan. Identifying implementation opportunities sometimes allows a business to identify new applications; in this case it may be necessary to iterate the Opportunities and Solutions and Target Architecture
E. Migration Planning	The various implement projects are sorted into priority order	 Current architecture Building block architecture, both in Architectural (functionally defined) and Solution (product-specific) Building Block forms. Analysis of how proposed architecture meets business goals and objectives Organizational information Product information Standards information Other specification information 	A prioritized list of tasks to be implemented including cost/benefit information and outline plans	 Is the migration viable? What products are needed? What components must be developed? Does the organization have the resources needed to develop such components? What standards are the products or components built on? When will they be available? Will the products stand the test of time? What is the cost of 	phases. A prioritized list of tasks will go on to form the basis of the implementation plan

				 retraining the users? What is the likely cultural impact on the user community? What is the total cost of the migration? What actual benefits will it deliver? 	
F Implementation planning	Plans are drawn up for each implementation project, and the system is implemented and deployed	 Benefit statements from E Cost information from E Outline plan from E 	 A full implementation plan The implemented system 	 Project details, including name, description and objectives Scope, deliverables and constraints Task lists Measures of effectiveness Cost/benefit analysis Required resources Acceptance criteria Risks and issues 	
G. Architecture maintenance	Establishes a procedure for the ongoing maintenance of the architecture and puts it into practice	 Architecture and Solutions Building Blocks Technology environment updates Business environment updates 	Ongoing maintenance of the target system		• The maintenance procedure for the new baseline.will typically provide for continual monitoring of new developments in technology and changes in business environment, and for determining whether to formally initiate a new architecture evolution cycle.