

Unified Framework for Driving Transformations

Strategy & Architecture Content

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Strategy & Architecture Content



Time & Value Roadmap



Key Visibility Issues

Merger & Acquisition

Application & Technology Rationalization

- Where are IT and other redundancies?
- What is... not compliant with our standards, critical, not reliable enough, obsolete, expensive...?

Migrating to the cloud

What can be migrated to the cloud? How easily? What are the dependencies?

Data Governance (GDPR)

• Which data is sensitive? Where is it used (where it shouldn't be)?

Where are our strengths, weaknesses, opportunities and threats?



----- Key Transformation Issues ---->



- Why and how shall we optimize our business model?
- Which goals do we want to achieve?
- What is our target capabilities roadmap?
- Which projects shall implement this roadmap?
- What is our target solution architecture?
- How shall we govern architecture and implementation?

Key questions for driving changes

Where are we today?

Where do we want to be in the future?



How shall we get there?

How shall we answer all these questions?

We need people, tools and a process for creating **the architecture views that we need**.

These diagrams, charts and reports will provide the answers to our questions.



Sample view answering some questions

B2C Sales	×
- B2C Order Management	×
Athena Cash Desk	2
Jupiter Cash Desk	8
Venus Cash Desk	<u> </u>
- B2C Pricing Management	N
Zeus Common Pricing	
- B2C Self-Service Channel	×
Ares	2
Customer Mobile Application	
LOGIN B2B	2

This one is automatically generated

Differentiator = ?	1 N.	
= Y		
= N		
Externalized = Y	Entirely externalized	
= P	Partially externalized	
= N	Not externalized (default)	

Legend for Applications	
TO-BE = Y (Standard Application)	2
Deployment_Status = Terminated	•

Application Lifecycle / Vision				
	New			
	Invest			
	Maintain			
	Phase Out			
	?			

List of other Functional Area diagram(s) as hyperlink(s)

 CE
 FUN B2C Sales

 CE
 BOW Sales Information Owners

 CE
 FAL B2C Sales

 CE
 HF B2C Sales

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Creating strategy & architecture content...



... is like writing a book







The Vision folder contains...

- The Corporate Vision describing the internal and external context, the corporate objectives and the business model
- The Domain-Specific Vision describing how the Corporate Vision cascades into functional domains in terms of goals, demands and target capabilities roadmaps
- Directives i.e. Principles and Standards



The Visible Enterprise Description folder contains...

• A set of architecture **portfolios**, each describing the enterprise following a specific perspective



- Information
- Physical Material
- Process
- I Enterprise Function
- People
- I Application
- I Technology
- 👌 🧰 Equipment

 Each portfolio in turn contains catalogs that contain elements and views =>



The Visible Enterprise Portfolios folders represent architecture perspectives



The **Projects** folder contains...

 Proposed and ongoing changes to the enterprise architecture models

The folder structure is similar to the structure of portfolios that are used to describe the enterprise as a whole



Project architecture work changes the content of the visible enterprise description

Projects/Epics				
Visible Enterprise Description				
Passive Resources Information	Process		Enterprise Function	
Physical Material	People	Equipment		Application
				Technology

What do these architecture perspectives mean?



Processes are performed by people, applications and physical equipment in order to achieve some goals



Processes are performed by people, applications and physical equipment in order to achieve some goals



A process can use and produce **physical** resources



A process can use and produce **digital** resources



People exchange **mental** resources (**knowledge**) that they therefore need to make physical



Processes orchestrate exchanges of digital, physical and mental resources



For a new solution...

before deciding which existing or new performers will be involved, it is better to first consider their functions



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Enterprise functions are agnostic about whether they are human, physical or digital



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Process		Ente	rprise Function	
		Agnost are pe	ic of whether these ople, equipment of applications	Functional Domain
People	Equip	uipment Application		Functional Category
Functional Performers		Functional Service		
	Perfo	rmers		



For managing the portfolios of performers (e.g. applications)... performers are **mapped to** enterprise functions



Performers are **mapped to** enterprise functions **Example:**



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For application portfolio management and project architecture...

Application components and data stores are also mapped to **the servers on** which they are deployed at least during projects

Application Portfolio Management (continued...)

IT Application Performers Application ٤ 0 Application Data Store Component deployment IT Technology Performers Logical Node NodeType System Software intantiated intantiated deployment deployment Node Instance

For application portfolio management, specifically...

Application components and data stores are mapped to the technology they use at least during projects

Application Portfolio Management (continued...)



Architecture plateaus describe the subsequent states of the enterprise



Architecture plateaus describe subsequent states



An element or connector

- might be the target standard (TO-BE)
- might exist in some transitional future (TRANSITION)
- might exist today (AS-IS)

A view/diagram can focus on a specific plateau (automatic)

Solution architecture (in projects) describes changes to the enterprise operating platform

Re-use		Projects/Epics Stage 2 Stage 1 As-is				
Elements, connectors and views are re- used from shared catalogs	Integrated Vi	Integrated ArchitectureTo-be Transition As-isVisible Enterprise Description				
	Passive Resources Information	Process Ent		Enter	prise Function	
	Physical Material	People	Equip	ment	Application	
					Technology	

Transition and to-be architecture reflect approved solutions. As-is architecture is updated when the solution has been deployed



Architecture changes are controlled by governance structures

Envision then integrate changes during projects/epics



Within each architecture perspectives Elements and connectors belong to different Levels of Details



A **metamodel** defines the different types of model element and relationship



This same formal metamodel is used both for documentation and for model validation

Strategy & Architecture content is classified in a structure of folders

▲! 🛅 Vision ! 만음 Vision

🔺 💼 Corporate Visio

D Corporate

👂 🛅 Business N

🔺 🛅 FD {Domai

! 만음 STD -👂 🛅 Busine 🕴 🚞 Applic

▲! 🛅 Domain-Specif

▲! Directives

Leaf folders are catalogs that contain elements and views

n	🔺 🧰 Visible Enterprise	▲! Projects
Vision	▲!	Projects
Corporate Vision	! 만음 Information	
🛅 Corporate Context	Information Domain1	
🛅 Corporate Business Strategy	Information Domain2	41 Chagoing Project1
👌 🧰 Strategic Foundations	1 Physical Material	A (Ongoing Hojecu)
👌 🧰 Strategic Themes		
Corporate Strategic Objectives for Y+X	N Cocations	
Corporate Goals for Y+1		Physical Materi
🛅 Business Model		Process
Domain-Specific Vision		! 🗖 People
FD {Domain Acronym} {Domain name}	pi Processes	! 📛 Application
PC: FD {Domain Acronym} {Domain name}	▲ Enterprise Function	! 🛅 Technology
Domain Context	! 42 Function	! 🛅 Equipment
Domain Goals	▷!	👂 🛅 Analysis and De
Demands (for each Functional Area)	▷!	👂 🧰 Delivered
Image:	▲! People	👂 🧰 Architecture Management
Directives	! 면음 People	
DPD DPD Dringiples	! 🚞 Organization Functions	
	▷!	
	I Crganizations	
	Individuals	
	▷!	
	▲!	
T Standards	! 만큼 Application	
만 STD - Standards	D Provide Application Functions	
⊳! 🛅 Business	I Applications as a Service	
Provide the second seco	D Applications	
! 🛅 Technology	▶! ☐ Shared Data Stores	
! 🛅 Information	AI Technology	
! 🛅 Security	L ₽⊒ Technology	
	N C Technology Functions	
	N C Technology as a Service	
	N C Interface Protocols	
	N C System Software	
Jgs	N C Shared Logical Nodes	
-0-	Nede Instances	
~	Node Instances	
5	Communication Naturalia	
	Equipment Functions	
	▷! □ Equipments	
	▷! ☐ Facilities	
	Equipment Types	

Distribution Networks

Analysis and Design

Physical Material

Elements and diagrams are altogether organized in the repository following a **prescribed tree structure**





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The different types of views (viewpoints) organized following architecture perspectives

Views and Viewpoints (ISO/IEC/IEEE 42010)



- 1. Decompose complex architecture descriptions and make them manageable
- 2. Separate concerns. So that each concern can be addressed by specific domains of expertise



Viewpoints and Views – Textual definitions

Definitions based on Wikipedia

In the <u>engineering</u> of physically intensive systems, viewpoints often correspond to capabilities and responsibilities within the engineering organization.

Most complex system specifications are so extensive that no single individual can fully comprehend all aspects of the specifications. Furthermore, we all have different interests in a given system and different reasons for examining the <u>system</u>'s <u>specifications</u>.

- A <u>viewpoint</u> is a systems engineering concept that describes a
 partitioning of concerns in system restricted to a particular set of
 concerns. Adoption of a viewpoint is usable so that issues in those
 aspects can be addressed separately. A good selection of viewpoints also
 partitions the design of the system into specific areas of Expertise.
 Viewpoints provide the conventions, rules, and languages for constructing,
 presenting and analysing views.
- A <u>view</u> of a system is a representation of the system from the perspective of a viewpoint. This viewpoint on a system involves a perspective focusing on specific concerns regarding the system, which suppresses details to provide a simplified model having only those elements related to the concerns of the viewpoint. It is the sum of all views together that describes a system sufficiently. The view uses the conventions, rules and language defined by the viewpoint to document the relevant aspect of the system.

