

# Enterprise Architecture on a Page

(A one-page aggregated view of popular EA artifacts used in organizations with their most essential properties, including their informational content, representation format, high-level structure, overall meaning, typical usage, temporal lifecycle, general role, key purpose and associated benefits)

### Analytical Reports

Executive-level analyses of relevant technology trends and their potential impact on the organization

### Principles

Global high-level guidelines relevant to all decision-making and planning in the organization

### Policies

Overarching normative prescriptions relevant to certain aspects of organizational decision-making

### Architecture Strategies

Abstract conceptual directions for the organization in terms of the relationship between business and IT

### Business Capability Models

Structured graphical views of organizational business capabilities, their relationship and hierarchy

### Process Maps

Structured graphical views of high-level business processes, their relationship and hierarchy

### Value Chains

Structured graphical representations of the added value chain of the organization or its lines of business

### Target States

High-level graphical descriptions of the specific state of the organization in terms of business and IT

### Roadmaps

Structured graphical views of IT initiatives having direct business value for the organization

### Solution Briefs

Very high-level sketches of IT solutions emphasizing their business contribution to the organization

### Conceptual Data Models

Abstract definitions of the key data entities vital for the business of the organization and their relationship

### Technology Reference Models

Structured graphical representations of the technology portfolio of the organization

### Technology Inventories\*

Technology	Vendor	Version(s)	Category	Function
Technology 1	...	...	...	...
Technology 2	...	...	...	...
Technology 3	...	...	...	...
Technology 4	...	...	...	...
Technology 5	...	...	...	...
Technology 6	...	...	...	...
Technology 7	...	...	...	...
Technology 8	...	...	...	...
Product 1	...	...	...	...
Product 2	...	...	...	...
Product 3	...	...	...	...
Product 4	...	...	...	...
Product 5	...	...	...	...

Structured catalogs of technologies with their key properties, attributes and features

### Technology Roadmaps\*

Structured graphical views of the lifecycles of technologies with their phases

### IT Principles

Global high-level IT-centric guidelines relevant to all IT-related decisions and plans in the organization

### Guidelines

Detailed IT-specific implementation-level prescriptions applicable to narrow technology areas or domains

### Patterns

Generic reusable solutions to commonly occurring problems in the design of information systems

### Logical Data Models\*

Logical or even physical platform-specific definitions of common data entities and their relationship

### Landscape Diagrams\*

Technical depictions of the landscape structure in terms of its components, their connections and interactions

### Asset Inventories\*

Structured catalogs of IT assets with their essential properties, attributes and features

### System Portfolio Models

Structured high-level mappings of core information systems to relevant business capabilities

### Landscape Maps

Structured high-level mappings of key IT systems to relevant functional and organizational areas

### IT Roadmaps

Structured graphical views of IT initiatives of a purely technical nature having no visible business impact

### Asset Roadmaps\*

Structured graphical views of the lifecycles of IT assets with their milestones

## Enterprise Architecture

	What EA Artifacts Describe?		
	Generic		Specific
Business-Focused	<b>Rules</b> <b>Considerations</b> Content: Global conceptual rules and fundamental considerations important for business and relevant to IT Focus: Do not refer to specific points in time or focus on the long-term future Format: Expressed in brief informal formats, often as large but simple one-page diagrams Meaning: Decisions on how the organization needs to work or what it wants to achieve from a business and IT perspective Usage: Developed collaboratively by senior business leaders and architects and then used to influence all architectural decisions (see Enterprise Architecture Practice on a Page) Lifecycle: Established once and then updated according to the ongoing changes in the business environment Role: Overarching organizational context for information systems planning Purpose: Help achieve the agreement on basic principles, values, directions and aims Benefits: Improved overall consistency between business and IT	<b>Structures</b> <b>Visions</b> Content: High-level conceptual descriptions of the organization from a business perspective Focus: Often focus on the long-term future up to 3-5 years ahead Format: Expressed in brief informal formats, often as large but simple one-page diagrams Meaning: Decisions on what IT should provide to the organization in the long run Usage: Developed collaboratively by senior business leaders and architects and then used to guide IT investments, identify, prioritize and launch new IT initiatives (see Enterprise Architecture Practice on a Page) Lifecycle: Created once and then updated according to the ongoing changes in strategic business priorities Role: Shared views of the organization and its future agreed by business and IT Purpose: Help achieve the alignment between IT investments and long-term business outcomes Benefits: Improved strategic alignment and effectiveness of IT investments	<b>Solutions</b> <b>Outlines</b> Content: High-level descriptions of separate IT solutions from a business point of view Focus: Usually focus on the mid-term future up to 1-2 years ahead Format: Expressed as a mix of textual descriptions and simple diagrams Meaning: Decisions on how approximately specific IT solutions should be implemented Usage: Developed collaboratively by architects and business leaders and then used to evaluate, approve and fund specific IT solutions (see Enterprise Architecture Practice on a Page) Lifecycle: Produced at the early stages of IT projects to support decision-making and then archived Role: Benefit, time and price tags for proposed IT solutions Purpose: Help estimate the overall business impact and value of proposed IT solutions Benefits: Improved efficiency and ROI of IT investments
	IT-Focused	<b>Standards</b> Content: Global technical rules, norms, patterns and best practices relevant to information systems Focus: Do not refer to specific points in time or focus on the current state Format: Can be expressed in various formats, often using strict notations Meaning: Decisions on how all IT systems should be constructed and some facts on the current approaches and technologies Usage: Developed collaboratively by architects and technical subject-matter experts and used to shape the architectures of all IT initiatives (see Enterprise Architecture Practice on a Page) Lifecycle: Established on an as-necessary basis and updated according to the ongoing technology progress Role: Proven reusable means for IT system implementation Purpose: Help achieve technical consistency, technological homogeneity and regulatory compliance Benefits: Faster project implementation, reduced costs, risks and complexity	<b>Landscapes</b> Content: High-level technical descriptions of the organizational IT landscape Focus: Focus mainly on the current state, sometimes looking into the future Format: Expressed in strict formats, often as complex one-page diagrams using formal modeling notations, e.g. Arch4Mate Meaning: Facts on the current IT landscape and some decisions on its future evolution Usage: Developed and maintained by architects and used to rationalize the IT landscape, manage the lifecycle of IT assets and plan new IT initiatives (see Enterprise Architecture Practice on a Page) Lifecycle: Created on an as-necessary basis and updated according to the ongoing evolution of the IT landscape Role: Knowledge base of reference materials on the corporate IT landscape Purpose: Help understand, analyze and modify the structure of the IT landscape Benefits: Increased reuse and agility, reduced duplication and legacy
How EA Artifacts Describe?	<b>Describe:</b> Universal rules defining the organization or its divisions <b>Scope:</b> Very broad, often relate to the entire organization <b>Format:</b> Often textual <b>Question:</b> How do we work or want to work? <b>Lifecycle:</b> Permanent, created once and then periodically updated <b>Role:</b> Basis for all other architectural decisions <b>Purpose:</b> Help achieve consistency and homogeneity of all planning decisions	<b>Describe:</b> High-level structures of the organization or its parts <b>Scope:</b> Broad, often cover large areas of the organization <b>Format:</b> Usually graphical <b>Question:</b> What approximately do we have or want to have? <b>Lifecycle:</b> Permanent, created once and then continuously updated <b>Role:</b> High-level "maps" facilitating decision-making <b>Purpose:</b> Help understand what changes are desirable and how to implement them	<b>Describe:</b> Specific IT solutions in the organizational context <b>Scope:</b> Narrow, limited to separate IT solutions or systems <b>Format:</b> Mix of textual and graphical! <b>Question:</b> What exactly are we going to change right now? <b>Lifecycle:</b> Temporary, created for specific purposes within IT projects but then discarded <b>Role:</b> Tactical plans of the organization <b>Purpose:</b> Help implement separate landscape changes

### Solution Options

Option	Score
Solution 1: Time: 9-13 months, Cost: \$2.0-3.5 million, Advantages: ..., Disadvantages: ..., Risks: ...	Functionality: 5, Feasibility: 2, Alignment: 4, Total Score: 11
Solution 2: Time: 4-7 months, Cost: \$1.0-1.7 million, Advantages: ..., Disadvantages: ..., Risks: ...	Functionality: 3, Feasibility: 3, Alignment: 1, Total Score: 7
Solution 3: Time: 3-5 months, Cost: \$0.7-1.3 million, Advantages: ..., Disadvantages: ..., Risks: ...	Functionality: 2, Feasibility: 5, Alignment: 2, Total Score: 9

Lists of possible high-level implementation options for IT solutions with their pros and cons

### Solution Overviews

- Overview and Goals
- Scope and Stakeholders
- Essential Requirements
- Business Benefits
- Capability Impact
- Order Fulfillment (High)
- Customer Analytics (Low)
- Involved Partners
- IBM, Accenture
- Business Process Changes
- Accurate Estimations
- Key Risks

High-level descriptions of IT solutions with their logical components highlighting their business aspects

### Preliminary Solution Designs

- Brief Overview
- Goals and Objectives
- Scope and Stakeholders
- Business Requirements
- Involved Partners
- Key Technologies
- Accurate Estimations
- Technical Risks
- High-Level Architecture
- Application Interaction

High-level technical and functional descriptions of IT systems with their physical components

### Solution Designs

- Brief Overview
- Goals and Objectives
- Detailed Requirements
- Solution Context
- Data Architecture
- Application Architecture
- Infrastructure Architecture

Detailed technical and functional specifications of IT systems with their physical components