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# 1. Introduction

Successful architecture management is key to the success of any organization. Poorly implemented architecture can lead to project failures, increased costs, and a loss of competitive advantage. On the other hand, well-managed architecture can improve system performance, reduce complexity, and promote standardization.

# 2. Purpose

The objective of the architecture management profession is to give an understanding of all the many aspects that make up an organization, as well as how those elements interact, so that the company may effectively fulfil its present and future goals. It lays out the ideas, standards, and tools that a company can use to manage complex change in a systematic and Agile manner.

# 3. Roles and Responsibilities

* Architecture manager- The role of the architecture manager is to oversee and coordinate the architectural work done on a software project. They are responsible for creating and maintaining the project's architecture, which is a plan that describes how the system will be structured and how its components will interact. The architecture manager works with other members of the team to make sure that all aspects of the project are accounted for, from design to implementation. They must also ensure that the architecture meets the requirements of the system and its users. An architecture manager also sets up an architecture board, conducts architecture review, signs off, architecture process improvement and maturity improvement.
* Enterprise architect- An enterprise architect is a professional who plans, designs, and oversees the installation of information technology systems within an organization. They work to ensure that all IT initiatives are in line with the business goals of the company and that they are properly executed. EA professionals must have a deep understanding of both business and technology concepts to make sound recommendations to their clients.

## 3.1 Enterprise architect governance roles and responsibilities

* Providing communication and leadership
* Decide the scope for architecture
* Envisioning, directing, and guiding the creation of a comprehensive solution architecture that is compliant with IT transformation.
* Knowledge of business areas as they relate to the business capacity model
* Understanding of technologies matched to the capability mode of technology
* Establishing and sustaining a link between the architecture's execution, the enterprise architecture's architectural strategy and objectives, and the business's strategic goals
* Responsible for data privacy and security of services.

# 4. Contribution to service value chain

Chart, diagram, funnel chart

Description automatically generated

* Plan- The objective of the plan is to create and sustain the current and target architectures.
* Improve- Improve focuses on discovering potential for improvement in all types of architecture.
* Engage- The objective of Engage is to gain a deeper understanding of the present and target architectures.
* Design and transition- Design & Transition focuses on engaging with users, technical stakeholders and aligning the architecture with investment and service objectives through creating, developing, and transitioning it.
* Obtain/ build- Obtain/build emphasis is on determining the architectural components.
* Deliver and support- The focus of Deliver & Support is on operation, management, and maintenance.
* Value- Focuses on designing a right architecture that is maintained and sustained.

# 5. Key metrics

|  |  |
| --- | --- |
| **Key performance Indicators** | **Critical success factors** |
| Ensuring that the organization's  strategy is supported with a  target architecture | Fulfilment of the target architecture's agreed-upon requirements  The number and impact of architectural restrictions preventing the organization's plan from being realized  The number and significance of strategic decisions that the architecture does not support.  Internal and independent assessments of the intended architecture's completeness and quality  Duration and impact of delays between strategy updates and target architecture alignment |
| Ensuring that the organization's  architecture is continually  evolving to the target state and thoroughly tested before implementation | The number and magnitude of alterations made that did not adhere to the agreed-upon architecture.  The number and magnitude of architecturally important changes that have not been examined for compliance to the agreed-upon architecture. |
| Architectural redesigns | Number of times architectural issues or design issues that lead to redesigns |

# 6. Architecture governance

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| **Inputs** | **Activities** | **Key Outputs** |
| Organization’s principles, policies, and vision | Analyze the organization and requirements | Architecture vision |
| Organizational strategy | Develop and agree architecture vision | Architecture principles and requirements |
| Environmental factors | Monitor the organization’s architecture |  |
| Architecture review | Review the entire architecture and document the changes required. Conduct a minutes of meeting if required | Less errors will be reported |
| Product and service portfolio |  |  |
| Program and project portfolio |  |  |
| Customer portfolio |  |  |

# 7. Target architecture and roadmap process

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| --- | --- | --- |
| **Activity** | **Architecture management** | **IT architecture management** |
| Identify requirements | Architecture committee analyses the architecture vision and requirements. | IT architects examine the vision and requirements for IT architecture. |
| Document current architecture | Architects analyze and record current architecture at all levels, from business architecture to technical infrastructure, if the current architecture in the scope of requirements has not been documented or is out of date. | If existing IT architecture in the area of requirements has not been documented or is not up-to-date, architects explore and document date, current architecture at all levels, starting with documenting current IT architecture. |
| Design, agree, communicate | The most crucial gaps between the target and existing are identified by architects. | The most crucial gaps between the target and existing are identified by architects. |
| Architecture road map | Controls are included in the route map to ensure that the agreed-upon architecture is followed throughout the organization. Product owners, risk managers, finance managers, and other key executives and specialists are all supporting our endeavor. | Controls are included in the route map to ensure that the agreed-upon architecture is followed throughout the organization. Product owners, risk managers, finance managers, and other key executives and specialists are all supporting our endeavor. |

# 8. Architecture control Process

The following are activities related to the architecture control process:

* Check for conformity to the target timeline
* Escalate non-conformance
* Identify architect important changes and events
* The review process is compared to the architecture roadmap.

# 9. Partners and suppliers

The architecture of the company should support its strategy and ensure that all its components successfully contribute to its success. The architecture isn't constrained by the company's own resources. This comprises the company's service portfolio as well as how it interacts with its customers. Third-party services, on the other hand, should not be neglected.

Multi-sourcing, service integration, and management are all major trends in business architecture (or on the other hand disintermediation). At the level of technology architecture, digitization and the resulting third-party cloud services are the most significant trends influencing the design.

Product and service architecture are influenced by both business and technological trends. This should be reflected in the architecture of the organization and considered when developing target architectures and road maps. To address this, architectural management should work hand in hand with other approaches such as portfolio management, supplier management, organizational change management, risk management, infrastructure and platform management, and, of course, strategy management.

# 10. Data Architecture

**Deploying the model**

**Training the data**

**Data storage**

**Preparing the data for machine learning model**

**Data processing**

**Data Sources**

**Insight and Reporting**

## 10.1 Software Blueprint

The name of the module as specified in the configuration management system and/or software build system is the build unit. The file(s) that are sent to the production environment are the deliverable unit. In order to ensure that no files are missing from the release packaging, verification requires a complete list of the given files. This is particularly important for partial upgrades because an outdated file may not be noticed at first.

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| **Unit** | **New/Modified** | **Files/ Software** | **Deliverables** | **Notes** |
| ABCI | New | Norton update | Xuyz.co | Installed in communication network |
| Request Log | Modified | NA | Log.github | Shared library to all knowledge platforms |
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