{{ Title }} - Architecture Design

*{{ Software Architecture - Architecture Design Template based on*[*ADD 3.0 (Attribute Driven Design)*](https://resources.sei.cmu.edu/asset_files/Presentation/2015_017_101_438648.pdf)*software architecture design process from the SEI. Replace text in curly brackets. }}*

# Design Objective

{{ Describe the purpose and scope of the project, including links to functional requirement documents or any other artefacts which provide background information. }}

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# Definitions & Acronyms

* **{term}** - {description}

# Design Inputs

## Use Cases

The architecturally significant technical & functional, use cases & requirements:

|  |  |  |
| --- | --- | --- |
| **Id** | **Use Case** | **Notes** |
| **UC-10** | i.e. a downstream system can request X from Y |  |

## Quality Attribute Scenarios

The [quality attributes](https://fenway.fenergo.com/external-link.jspa?url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FList_of_system_quality_attributes) / [non-functional requirements (NFRs)](https://fenway.fenergo.com/external-link.jspa?url=https%3A%2F%2Fen.wikipedia.org%2Fwiki%2FNon-functional_requirement) relevant to this design and how they relate to the use cases listed above:

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Quality Attribute** | **Scenario** | **Associated Use Case Ids** |
| **QA-10** | i.e. Security | i.e. all requests must be authorised | UC-1 |

## Constraints

Limitations or restrictions on this design:

|  |  |  |
| --- | --- | --- |
| **Id** | **Constraint** | **Notes** |
| **CON-10** | i.e. Must be compatible with X |  |

## Architectural Concerns

Other concerns, external drivers etc

|  |  |  |
| --- | --- | --- |
| **Id** | **Concern** | **Notes** |
| **CRN-10** | i.e. Limited developer resources available |  |

## Current State Architecture

{{ Description / diagrams / links where applicable }}

# Design Iterations

## 1. {{ Iteration Title }}

{{ Description of the problem tackled in this iteration, multiple iteration sections can be added here as required or created as separate documents }}

### Decision & Rationale

**{{ DATE }}** - {{ The option chosen and rational for making the decision }}

### Option 1.1 - {{ Option Title }}

{{ Detailed description of the option explored; patterns/data flows/frameworks etc. Use component/class/sequence diagrams where appropriate }}

### Option 1.2 - {{ Option Title }}

{{ Detailed description of the option explored; patterns/data flows/frameworks etc. Use component/class/sequence diagrams where appropriate }}

### Option Comparison

|  |  |  |  |
| --- | --- | --- | --- |
| **Id** | **Pros** | **Cons** | **Notes** |
| **OPT- 1.1** |  |  |  |
| **OPT- 1.2** |  |  |  |

# Resources

Links to relevant material: