|  |
| --- |
| ASE TEAM 1  Workflow  HUSACCT – General Control & GUI  June 21, 2013 |

|  |
| --- |
| Bart Steijlen - Coen van Driel – Donovan de Kuiper  Leo Wakelkamp - Thijs Schalk |

CONTENTS

[Architectural significant requirements 2](#_Toc359932207)

[Use cases 2](#_Toc359932208)

[Use case model 2](#_Toc359932209)

[Use case New Workspace 4](#_Toc359932210)

[Use case Open Workspace 6](#_Toc359932211)

[Use case Save Workspace 8](#_Toc359932212)

[Use case Close Workspace 10](#_Toc359932213)

[Use case Define Architecture 11](#_Toc359932214)

[Use case Defined architecture diagram 12](#_Toc359932215)

[Use case Import Architecture 13](#_Toc359932216)

[Use case Export Architecture 14](#_Toc359932217)

[Use case Application properties 15](#_Toc359932218)

[Use case Analysed application overview 17](#_Toc359932219)

[Use case Analysed application diagram 19](#_Toc359932220)

[Use case Validate 20](#_Toc359932221)

[Use case Validate configuration 21](#_Toc359932222)

[Use case Export violation report 22](#_Toc359932223)

[Use case Change Language 24](#_Toc359932224)

[Toolbar 25](#_Toc359932225)

[Taskbar 25](#_Toc359932226)

[Functional Requirements 26](#_Toc359932227)

[Non-functional requirements 26](#_Toc359932228)

[Decisions and justification 27](#_Toc359932229)

[Physical models 28](#_Toc359932230)

[Physical class diagram 28](#_Toc359932231)

[Physical software partitioning model 29](#_Toc359932232)

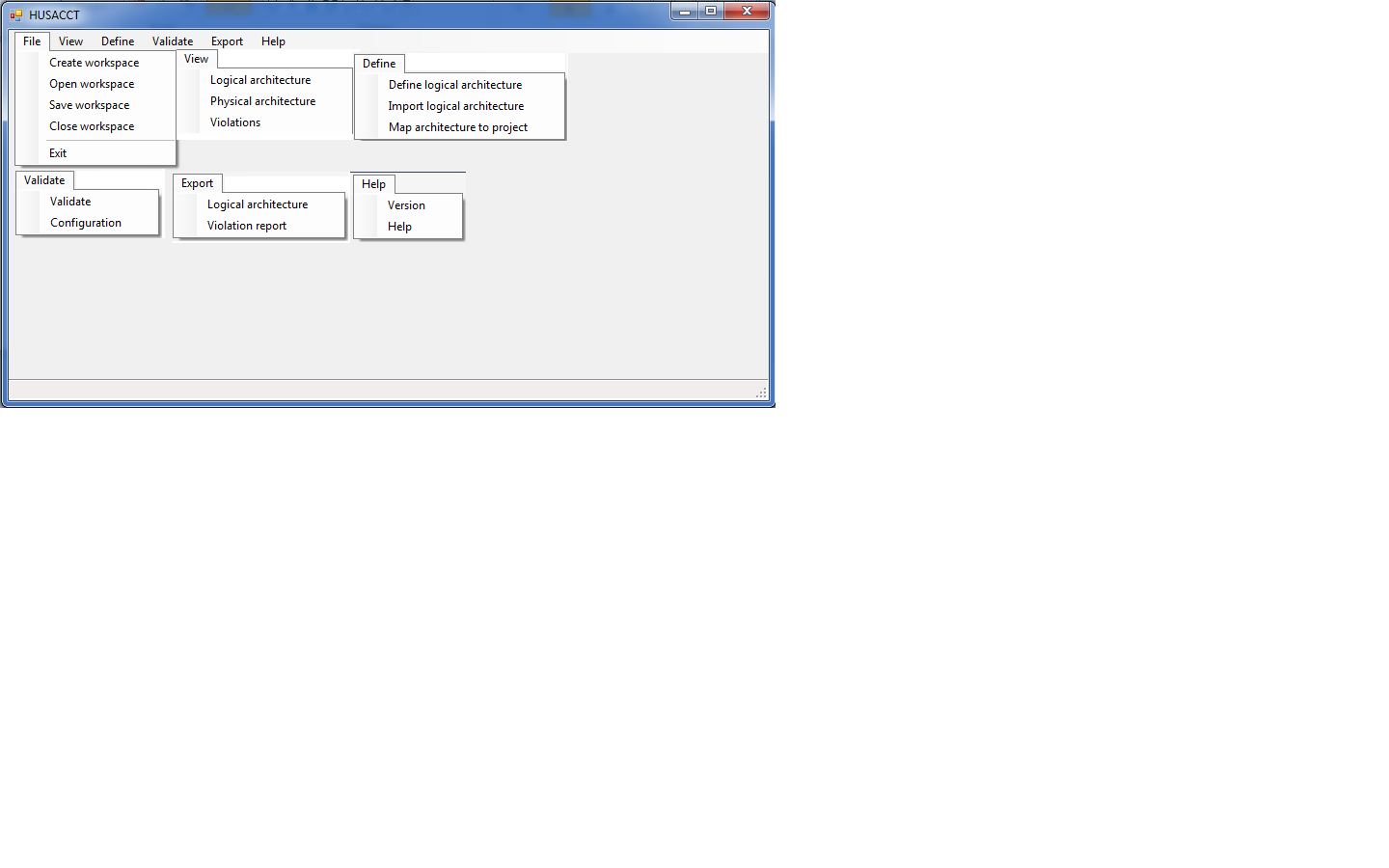
[Architectural Rules 0](#_Toc359932233)

# Introduction

This document is created to clarify the workflow of the HUSACCT application. This document includes the following:

* Statusdiagram
* Workflow diagrams
* Textual clarification of the diagrams
* Screendump

# Screendump main screen



# Workflow State Chart

This diagram is the general workflow of the program.



There are five states the program can be in. These states will be explained in the document.

# Status

In the following pages the states of the program will be explained.

The status Booleans are used to see in which state the project is in. These are used to see if the buttons can be used or not.

The help menu and the view menu can always be used. If the content of the view is not created, the view will be empty.

## No Workspace

**Explanation:**

This is the state the program gets in after it is started up. No workspace is opened. To get to another state a new Workspace needs to be created or an old Workspace needs to be opened.

**Workflow:**



**Enabled buttons:**

Open Workspace

Create Workspace

Exit

|  |  |
| --- | --- |
| **Status Booleans** | **True/false** |
| isWorkspace | False |
| isDefined | False |
| isMapped | False |
| isValidated | False |
| isAnalyzed | False |

|  |  |  |
| --- | --- | --- |
| **Services** | **Activated** | **Used** |
| AnalyseService | No | No |
| DefineService | No | No |
| ValidateService | No | No |
| ArchtectureGraphicsService | No | No |

## Empty Workspace

**Explanation:**

In this state an empty Workspace is created. To get out of this state a Logical Architecture need to be defined or imported.

**Workflow:**



**Enabled buttons:**

Open Workspace

Save Workspace

Create Workspace

Exit

Import Logical Architecture

Define Logical Architecture

|  |  |
| --- | --- |
| **Status Booleans** | **True/false** |
| isWorkspace | True |
| isDefined | False |
| isMapped | False |
| isValidated | False |
| isAnalyzed | False |

|  |  |  |
| --- | --- | --- |
| **Services** | **Activated** | **Used** |
| AnalyseService | No | No |
| DefineService | No | No |
| ValidateService | No | No |
| ArchtectureGraphicsService | No | No |

## Defined Workspace

**Explanation:**

In this state a Workspace is created and the logical architecture can be defined. The logical architecture is not mapped to the code.

**Workflow:**



**Enabled buttons:**

Open Workspace

Save Workspace

Create Workspace

Exit

Import Logical Architecture

Export Logical Architecture

Map Architecture to project

|  |  |
| --- | --- |
| **Status Booleans** | **True/false** |
| isWorkspace | True |
| isDefined | True |
| isMapped | False |
| isValidated | False |
| isAnalyzed | False |

|  |  |  |
| --- | --- | --- |
| **Services** | **Activated** | **Used** |
| AnalyseService | No | No |
| DefineService | Yes | Yes |
| ValidateService | No | No |
| ArchtectureGraphicsService | No | No |

## Mapped Workspace

**Explanation:**

In this state the logical architecture is created and mapped to the code. The program is ready to be validated.

**Workflow:**



**Enabled buttons:**

Open Workspace

Save Workspace

Create Workspace

Exit

Import logical Architecture

Export logical Architecture

Define logical Architecture

Map Architecture to project

Validate

|  |  |
| --- | --- |
| **Status Booleans** | **True/false** |
| isWorkspace | True |
| isDefined | True |
| isMapped | True |
| isValidated | False |
| isAnalyzed | False |

|  |  |  |
| --- | --- | --- |
| **Services** | **Activated** | **Used** |
| AnalyseService | Yes | Yes |
| DefineService | Yes | Yes |
| ValidateService | No | No |
| ArchtectureGraphicsService | Yes | Yes |

## Validated Workspace

**Explanation:**

In this state the validation process can be executed. The violations can now be exported.

**Workflow:**



**Enabled buttons:**

Open Workspace

Save Workspace

Create Workspace

Exit

Import logical Architecture

Export logical Architecture

Define logical Architecture

Map Architecture to project

Validate

Export Violation Report

|  |  |
| --- | --- |
| **Status Booleans** | **True/false** |
| isWorkspace | True |
| isDefined | True |
| isMapped | True |
| isValidated | True |
| isAnalyzed | True |

|  |  |  |
| --- | --- | --- |
| **Services** | **Activated** | **Used** |
| AnalyseService | Yes | No |
| DefineService | Yes | No |
| ValidateService | Yes | Yes |
| ArchtectureGraphicsService | Yes | Yes |

# Additional workflow diagrams

## Save workspace

It is possible to save the workspace at any given time (as long as a workspace is created).



## Close workspace

Only one workspace may be opened at any given time. To work in a different workspace the previous workspace should be closed.



## Exit

Exit closes the application (DUH).



## Export violations

Violations can only be exported if a project has been validated (Validated workspace).



## Export logical architecture

The logical architecture can be exported when at least one logical architecture element has been defined (Defined workspace).

