|  |  |
| --- | --- |
| Author: |  |
|  |  |
|  |  |
|  |  |
| Department: |  |

# Approval

| **Role** |  |
| --- | --- |
| Manager |
| Architect |
| Architect |
| QA Officer |

# Revision History

| **Revision Date** | **Author** | **Source** | **Changes/Comments** |
| --- | --- | --- | --- |
| <yyyy Mon dd> | <Author> | <Source ID> | <Description of change> |
|  |  |  |  |

<List the changes, date and author related to the ‘Source’. The ‘Source’ refers to the reason for the change.>

# Open Issues

<

State “None” in this section, if there are no open issues.

If there are open issues: the author can decide to define an open issue bullet list

>

# Table of Contents

[Approval 1](#_Toc484641490)

[Revision History 1](#_Toc484641491)

[Open Issues 1](#_Toc484641492)

[Table of Contents 1](#_Toc484641493)

[1. Document Introduction 1](#_Toc484641494)

[1.1. Purpose 1](#_Toc484641495)

[1.2. Scope and stakeholders 1](#_Toc484641496)

[1.3. Brief description and intended use 1](#_Toc484641497)

[1.4. How to read this document 1](#_Toc484641498)

[1.5. References 1](#_Toc484641499)

[1.6. Definitions & Abbreviations 1](#_Toc484641500)

[2. Rationale 1](#_Toc484641501)

[3. Versioning 1](#_Toc484641502)

[4. Syntax <SW only> 1](#_Toc484641503)

[4.1. Data types and constants 1](#_Toc484641504)

[4.2. Signature 1](#_Toc484641505)

[5. Semantics <SW only> 1](#_Toc484641506)

[5.1. State behavior 1](#_Toc484641507)

[5.2. Timing constrains 1](#_Toc484641508)

[6. Your chapters 1](#_Toc484641509)

[7. Usage guide <optional> 1](#_Toc484641510)

[8. Deployment 1](#_Toc484641511)

[9. Design issues 1](#_Toc484641512)

[10. Bibliography <optional> 1](#_Toc484641513)

[Control of the Form **Fout! Bladwijzer niet gedefinieerd.**](#_Toc484641514)

[History of the Form **Fout! Bladwijzer niet gedefinieerd.**](#_Toc484641515)

# Document Introduction

## Purpose

<Describe the purpose of the document and its related objectives. What is the goal of the document, why is it important.>

## Scope and stakeholders

<Describe the boundaries of the applicability of the document.

Example: This document is applicable to all project X members.

Examples of stakeholders of interface documentation with the required information:

* A developer creating the interface
* A tester
* A developer using an interface
* Analysts
* Architects
* Project managers>

## Brief description and intended use

<Defines the type of interface described in the document like Software Interface, Mechanical Interface, …>

## How to read this document

<Legend of used notations, items, colors, specific syntax used>

## References

| Reference | Identification | Title / additional remarks |
| --- | --- | --- |
| [REF-<1>] | <Identification ID> | <Title of document> |
| [REF-<n>] |  |  |
|  |  |  |
|  |  |  |

## Definitions & Abbreviations

<Use this section only if applicable. Use it for definitions and abbreviations used in this document, which are not trivial.>

| Term | Description |
| --- | --- |
| <def> | <Definition explanatory text> |
| <abbr> | <Abbreviation is written out> |
|  |  |
|  |  |

# Rationale

< Answer the question: Why do we need this interface? >

# Versioning

<Describe the versioning strategy>

|  |  |
| --- | --- |
| **Interface** | **Version** |
|  |  |

# Syntax

## Data types and constants

< Sometimes we need to create new data types (such as records, structs, classes, enumerations, or unions) for the data passed to or returned by resources in the interface. >

### Global User-Defined Types

#### PRIMITIVE TYPES

|  |
| --- |
|  |
|  |

#### ENUMS

|  |
| --- |
|  |
|  |

|  |  |
| --- | --- |
|  |  |

#### RECORD TYPES

|  |
| --- |
| **extends** |
|  |

|  |  |  |
| --- | --- | --- |
|  |  |  |

#### VECTOR TYPES

|  |  |
| --- | --- |
| = |  |

### Interface

#### PRIMITIVE TYPES

|  |
| --- |
|  |
|  |

#### ENUMS

|  |
| --- |
|  |
|  |

|  |  |
| --- | --- |
|  |  |

#### RECORD TYPES

|  |
| --- |
| **extends** |
|  |

|  |  |  |
| --- | --- | --- |
|  |  |  |

#### VECTOR TYPES

|  |  |
| --- | --- |
| = |  |

## Signature

<A signature consists of the general information about a function, its name, parameters, what scope it is in, and other miscellaneous information.>

### Interface

#### COMMANDS

|  |  |
| --- | --- |
| ( , ) | |
| Description |  |

|  |  |
| --- | --- |
| Parameter |  |

|  |  |
| --- | --- |
| Returns |  |

#### SIGNALS

|  |  |
| --- | --- |
| ( , ) | |
| Description |  |

|  |  |
| --- | --- |
| Parameter |  |

#### EVENTS

|  |  |
| --- | --- |
| ( , ) | |
| Description |  |

|  |  |
| --- | --- |
| Parameter |  |

# Semantics

## State behavior

|  |  |  |
| --- | --- | --- |
| **Global Variables** | | |
| **Type** | **Name** | **Comment** |

|  |  |  |
| --- | --- | --- |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Variable Initializations** | | |
| **Variable** | **Value** | **Comment** |

|  |  |  |
| --- | --- | --- |
|  |  |  |

### STATE MACHINE

Transitions defined in every state except states , :

|  |  |  |
| --- | --- | --- |
| **Event** | **Guard** | **Actions** |

|  |  |  |
| --- | --- | --- |
| -( , ) |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Initial State** | | | |
| **Event** | **Guard** | **Target State** | **Actions** |

|  |  |  |  |
| --- | --- | --- | --- |
| -( , ) |  |  |  |

## Timing constraints

### Constraint

## Data constraints

### Constraint

# Your chapters

<Add here your dedicated interface design content>

# Usage guide <optional>

< It’s helpful to complement the interface specification with examples that show the usage protocol for one or more methods of the interface.>

# Deployment

<It is convenient to document a set of assumptions that the element’s designer has made about the execution platform and its technology.>

# Design issues

<Record the reasons behind the design of the interface. The rationale should explain the motivation behind the design, constraints and compromises, alternative designs that were considered and rejected and why >

# Bibliography <optional>

| **Reference** | **Source** |
| --- | --- |
| [BIB-<1>] | <ISBN number: Book title> |
| [BIB-<2>] | <System Design Specification - Product Name > |
|  |  |
| [BIB-<n>] | <Title of document> |