Customer Requirements Specification

(Lastenheft)

(TINF19C, SWE I Praxisprojekt 2020/2021)

Project: *Modelling Wizard*

Customer: *Rentschler & Holder*
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Version	Date	Author	Comment
0.1	28.10.2020	Timo Zaoral	created
0.2	06.11.2020	Timo Zaoral	General Überholung nach Review

Offene Punkte

In diesem Abschnitt sollen alle Probleme und offenen Fragen gesammelt werden. Bei einem fertigen Lastenheft sollte er leer sein, aber bei Zwischenversionen kommt diesem Abschnitt besondere Bedeutung zu!

CONTENTS

1. Goal

An application is to be further developed that allows the creation of a device and the addition of device interfaces (e.g. physical ports) and File attachments [1][2]. A device can be created manually, but also by reading in existing device description files with the aid of the DD2AML converter [3]. The output is an AutomationML-Package that complies with the rules for AML-DDs [4].
In Figure 1 you can see the existing GUI which should be improved by a usability concept.

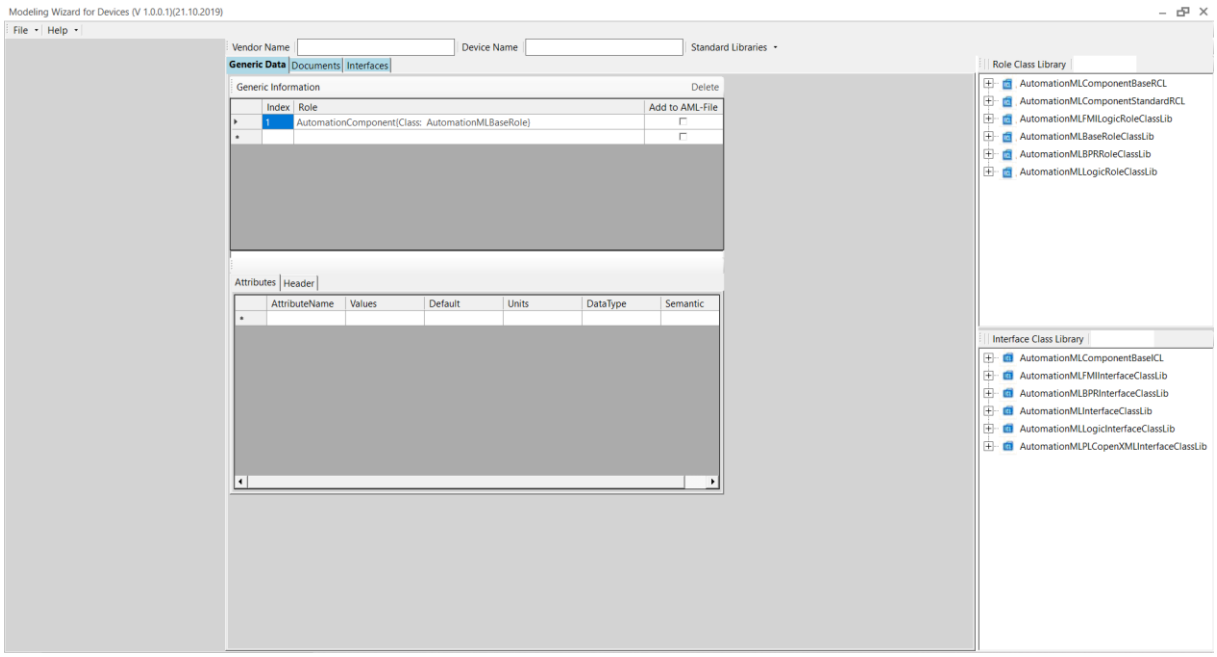

Figure 1 GUI

2. Requirements

2.1. /R10/ Usability Concept

For the already existing GUI a new usability concept should be created to make working with this plugin easier.

2.2. /R20/ GUI Design

From the requirements of the usability concept a suitable GUI should be designed.

2.3. /R30/ CAEX 2.15 & CAEX 3.0 Output

For the output from an AML device created with the plugin it should be possible to choose between the output formats CAEX 2.15 and CAEX 3.0.

2.4. /R40/ Parameter Requirements

There shall be input fields for all parameters required by the minimum rules for AML-DDs.

2.5. /R50/ Mechanical and Hydraulic Interfaces

In addition to the electrical interfaces, the other connectors and interfaces of AutomationMLComponentStandardRCL and AutomationMLComponentBaseICL should also be available for selection, e.g. mechanical and hydraulic.

2.6. /R60/ Electric Interface Test

It is to be tested whether the use of the AML interface library can be selected for electrical interfaces.

2.7. /R70/ User Documentation

For a better understanding of how to use the plugin with a new usability concept and new GUI, a user documentation has to be created.

3. Figures

4. References

[1]https://github.com/Rajkumarpulaparthi/ModellingWizard
[2]https://github.com/tinf17c/ModellingWizard
[3]https://github.com/WAntonia/TINF19C_Team_3_DD2AML-Converter
[4]https://www.automationml.org/o.red.c/dateien.html?cat=1