**Customer Requirements Specification**

**(Lastenheft)**

(TINF19C, SWE I Praxisprojekt 2020/2021)

Project: Modelling Wizard

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#### ****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!

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# Goal

An application is to be further developed, which makes it possible to create new applications via a simple GUI.

of a device and the addition of device interfaces (e.g. physical ports) and

File attachments enables [1][2]. A Device can be created manually, but

also, by reading in existing device description files with the help of the

DD2AML converters [3]. The output is an AutomationML package that

complies with the rules for AML-DDs [4].

# Requirements

## /R10/ GUI Design

A GUI is to be designed.

## /R20/ Usability Concept

For the GUI a suitable usability concept should be designed.

## /R30/ CAEX 2.15 & CAEX 3.0 Output

It should be possible to choose between the output formats CAEX 2.15 and CAEX 3.0.

## /R40/ Parameter Requirements

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

## /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.

## /R60/ Electric Interface Test

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

## /R70/ User Documentation

Detailed user documentation must be prepared.

# 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>