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# 1. Scope

The System Test Report details the tests run and their results. Eventual unit tests are contained in the Module definitions themselves.

# 2. Definitions

**TC:** Test Case

**TS:** Test Suite

**TD:** Test Data

**AML:** Automation Markup Language

**CAEX:** Computer Aided Engineering Exchange (Dateityp)

**STR:** System Test Report

**STP:** System Test Plan

# 3. Test Objects

| Ref.-ID | Product Number | Product Name |
| --- | --- | --- |
| 1 | V 0.9 (Commit e04822c) | Modelling Wizard for Cables |

# 4. Results of Testsuite <TS-001: Local installation>

## 4.1 Results of <TC-001-001> Access front end on local machine

| **Testcase ID:** | TC-001-001 |
| --- | --- |
| **Testcase Name:** | Access front end on local machine |
| **Req.-ID:** | LF10 |
| **Test Setup:** | Install the wizard following the steps in the [Installation Guide](https://github.com/fabianthome/TINF20C_Team2_ModellingWizardForCables#installation-and-usage) |

**Test Steps:**

| Step | Action | Expected result | Actual Result |
| --- | --- | --- | --- |
| 1 | Execute the front end and back end and open the front end webpage at [localhost](http://localhost:4200/). | The front end cable display list is displayed. | The front end cable display list is displayed. |

**Tester:** Leon Amtmann

**Date:** 06.05.2022

**Testcase Result:** PASS

# 5. Results of Testsuite <TS-002: Overview and Navigation>

## 5.1 Results of <TC-002-001> (Filtering of displayed cables)

| **Testcase ID:** | TC-002-001 |
| --- | --- |
| **Testcase Name:** | Filtering of displayed cables |
| **Req.-ID:** | LF10 LF30 LF50 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. |

**Test Steps:**

| Step | Action | Expected result | Actual Result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Enter a string into the search bar | Display list narrows down to only show cables which names contain the search string | see below for different test cases |
| 3 | Enter an attribute value in the appropriate field below the search bar and choose whether cables where the attribute is unknown should be shown | Display list further narrows down to only show cables which also fit the attributes provided | See below for different test cases based on TD-002-001 in the [STP](https://github.com/fabianthome/TINF20C_Team2_ModellingWizardForCables/wiki/System-Test-Plan) |

| Dataset | Expected indices | Actual indices | Result |
| --- | --- | --- | --- |
| 1 | 1, 2 | 1, 2 | PASS |
| 2 | 2, 3 | 2, 3 | PASS |
| 3 | <empty> | <empty> | PASS |
| 4 | 2 | 2 | PASS |

**Tester:** Leon Amtmann, Calvin Friedrich

**Date:** 06.05.2022

**Testcase Result:** PASS

## 5.2 Results of <TC-002-002> (Accessing cable details view by clicking on overview cable)

| **Testcase ID:** | TC-002-002 |
| --- | --- |
| **Testcase Name:** | Accessing cable details view by clicking on overview cable |
| **Req.-ID:** | LF20 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. |

**Test Steps:**

| Step | Action | Expected result | Actual Result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Click on cable name | Cable details are presented to the user | Cable details are presented to the user |

**Tester:** Leon Amtmann

**Date:** 06.05.2022

**Testcase Result:** PASS

## 5.3 Results of <TC-002-003> (Accessing cable details view by clicking on overview cable)

| **Testcase ID:** | TC-002-003 |
| --- | --- |
| **Testcase Name:** | Accessing overview list by browser back button and GUI |
| **Req.-ID:** | LF20 LF60 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. Tested four times: Browser back button, Cancel Button, Save Button (save functionality tested in TC-003-002 and TC-003-003), Icon in top left corner |

**Test Steps:**

| Step | Action | Expected result | Actual Result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Open cable details view by clicking on a cable | Cable details are displayed | Cable details are displayed |
| 3 | Click on specified button | Cable overview list is again presented to the user | see below for different executions |

| Button | Effect | Result |
| --- | --- | --- |
| Browser back button | Cable overview list is again presented to the user | PASS |
| Cancel button | Cable overview list is again presented to the user | PASS |
| Save button | Cable overview list is again presented to the user | PASS |
| Icon | Cable overview list is again presented to the user | PASS |

# 6. Results of Testsuite <TS-003: Cable Editing>

## 6.1 Results of <TC-003-001> (Create new cable based on user specified input)

| **Testcase ID:** | TC-003-001 |
| --- | --- |
| **Testcase Name:** | Create new cable based on user specified input |
| **Req.-ID:** | LF70 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. |

**Test Steps:**

| Step | Action | Expected result | Actual Result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Click on add button | Cable editor is presented to the user | Cable editor is presented to the user |
| 3 | Input cable data | Cable data is shown in editable form to the user, cable is not yet saved | Cable data is shown in editable form to the user, cable is not yet saved. |
| 4 | Hit save button | Cable is saved and now available in the cable overview list | Cable is saved and now available in the cable overview list. The resulting cable can be found below |

| Dataset | Cable in overview? | Attributes connected with cable? | Result |
| --- | --- | --- | --- |
| 1 | Yes | Yes | PASS |
| 2 | Yes | Yes | PASS |
| 3 | Yes | Yes | PASS |
| 4 | No | No | FAIL |

**Tester:** Leon Amtmann, Calvin Friedrich

**Date:** 06.05.2022

**Testcase Result:** FAIL

## 6.2 Results of <TC-003-002> (Edit details of existing cable with valid data)

| **Testcase ID:** | TC-003-002 |
| --- | --- |
| **Testcase Name:** | Edit details of existing cable with valid data |
| **Req.-ID:** | LF60, LF70 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. At least one valid cable should exist, else at least one needs to be created. |

**Test Steps:**

| Step | Action | Expected result | Actual Result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Click on cable to be edited | Cable details present themselves | Cable details present themselves |
| 3 | Click on attribute or specification list | List containing attributes or specifications opens | List containing attributes or specifications opens |
| 4 | Enter test data into the field | Field now contains edited data | Field now contains edited data |
| 5 | Hit save button | Cable is saved and now available in the cable overview list. | For resulting files, based on TD-003-002 in the [STP](https://github.com/fabianthome/TINF20C_Team2_ModellingWizardForCables/wiki/System-Test-Plan) see below |

| Dataset | Resulting cable file | Result |
| --- | --- | --- |
| 1 | BCC M314-M414-3E-304-PX0434-035.aml | PASS |
| 2 | BCC M313-M413-3E-300-PW3334-015.aml | PASS |
| 3 | BCC\_M324-M414-3E-304-VX8434-100.aml | PASS |

**Tester:** Leon Amtmann, Calvin Friedrich

**Date:** 06.05.2022

**Testcase Result:** PASS

## 6.3 Results of <TC-003-003> (Edit details of existing cable with invalid data)

| **Testcase ID:** | TC-003-003 |
| --- | --- |
| **Testcase Name:** | Edit details of existing cable with invalid data |
| **Req.-ID:** | LF60, LF70 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. At least one valid cable should exist, else at least one needs to be created. |

**Test Steps:**

| Step | Action | Expected result | Actual Result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Click on cable to be edited | Cable details present themselves | Cable details present themselves |
| 3 | Click on attribute or specification list | List containing attributes or specifications opens | List containing attributes or specifications opens |
| 4 | Enter test data into the field | Field now contains edited data | Field now contains edited data |
| 5 | Hit save button | Error message is presented to the user informing them that the provided information is invalid. | For results based on TD-003-003 in the [STP](https://github.com/fabianthome/TINF20C_Team2_ModellingWizardForCables/wiki/System-Test-Plan) see below |

| Dataset | Error Message? | Side Effects | Result |
| --- | --- | --- | --- |
| 1 | No | None | FAIL |
| 2 | No | Change is rejected, but without error message | FAIL |
| 3 | No | Change is accepted, but affected fields are set empty | FAIL |

**Tester:** Leon Amtmann

**Date:** 06.05.2022

**Testcase Result:** FAIL

## 6.4 Results of <TC-003-004> (Export cable as AML)

| **Testcase ID:** | TC-003-004 |
| --- | --- |
| **Testcase Name:** | Export cable as AML |
| **Req.-ID:** | LF80 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. At least one valid cable should exist, else at least one needs to be created. |

**Test Steps:**

| Step | Action | Expected result | Actual result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Click on cable to be downloaded | Cable details present themselves | Cable details present themselves |
| 3 | Click on the download button for specified CAEX version | Cable is downloaded to user machine | Cable is downloaded to user machine, for resulting files, based on TD-003-004 in the [STP](https://github.com/fabianthome/TINF20C_Team2_ModellingWizardForCables/wiki/System-Test-Plan) see below |

| Dataset | Download on click? | Resulting File | Result |
| --- | --- | --- | --- |
| 1 | No | None | FAIL |
| 2 | No | None | FAIL |

The feature is not implemented and therefore can not be tested. Only the entire cable library can be downloaded and disassembled into files as in [Testfiles/TC-003-002](https://github.com/fabianthome/TINF20C_Team2_ModellingWizardForCables/PROJECT/STR/TC-003-002)

**Tester:** Leon Amtmann

**Date:** 06.05.2022

**Testcase Result:** PASS

## 6.5 Results of <TC-003-005> (Remove entire cable)

| **Testcase ID:** | TC-003-005 |
| --- | --- |
| **Testcase Name:** | Remove entire cable |
| **Req.-ID:** | LF40 |
| **Test Setup:** | The application should be run locally or the wizard should be used via the website. At least one valid cable should exist, else at least one needs to be created. |

**Test Steps:**

| Step | Action | Expected result | Actual result |
| --- | --- | --- | --- |
| 1 | Open front end | Display list presents itself | Display list presents itself |
| 2 | Click on cable to be downloaded | Cable details present themselves | Cable details present themselves |
| 3 | Click on the delete button | Cable is deleted from disk and user is returned to display list. | Cable is deleted from disk and user is returned to display list, for test cases, based on TD-003-005 in the [STP](https://github.com/fabianthome/TINF20C_Team2_ModellingWizardForCables/wiki/System-Test-Plan) see below |

| Dataset | Deleted in backend? | Shown in Overview? | Result |
| --- | --- | --- | --- |
| 1 | Yes | No | PASS |

**Tester:** Leon Amtmann

**Date:** 06.05.2022

**Testcase Result:** PASS