Vaya Manufacturing Tool Software Requirement Document

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# 1. Purpose

This manufacturing Tool is designed for replacing old Vaya Addressing Tool and Factory Tool which develop by SZ team. And since Addressing kit is EOL, so we will replace the hardware kit to Smart Jack Pro.

The advantage to use SJP and correlate tool for manufacturing:

* Addressing kit is EOL
* Smart Jack Pro is more stable than addressing kit
* New tool is developed by SZ team and can get direct support and maintenance.

# 2. Basic Function

There 3 function categories for this software.

1) Factory Tool

2) Addressing Tool

3) Test Tool

# 3. Module design for function categories

## 1. Factory Tool (This tab will rename to “Configuration Tool”.)

|  |  |
| --- | --- |
| Item No. | Description |
| 1 | Select CM |
| 2 | Generate UID based on Date, CM … |
| 3 | Select fixture model |
| 4 | Program parameters into fixture |
| 5 | Verify the parameter by reading the EEPROM from fixture |
| 6 | Simple Channel Test |
| 7 | RS485 Communication Test |

## 2. Addressing Tool

|  |  |
| --- | --- |
| Item No. | Description |
| 1 | Discover All available fixtures |
| 2 | List all discovered fixtures |
| 3 | Read fixture type |
| 4 | Read firmware version |
| 5 | Fixture identification |
| 6 | Set DMX address and device label for each unit |
| 7 | Output excel file of the discover list |

## 3. Test Tool

|  |  |
| --- | --- |
| Item No. | Description |
| 1 | Fixed Color |
| 2 | Wash |
| 3 | Test Channel |
|  |  |
|  |  |