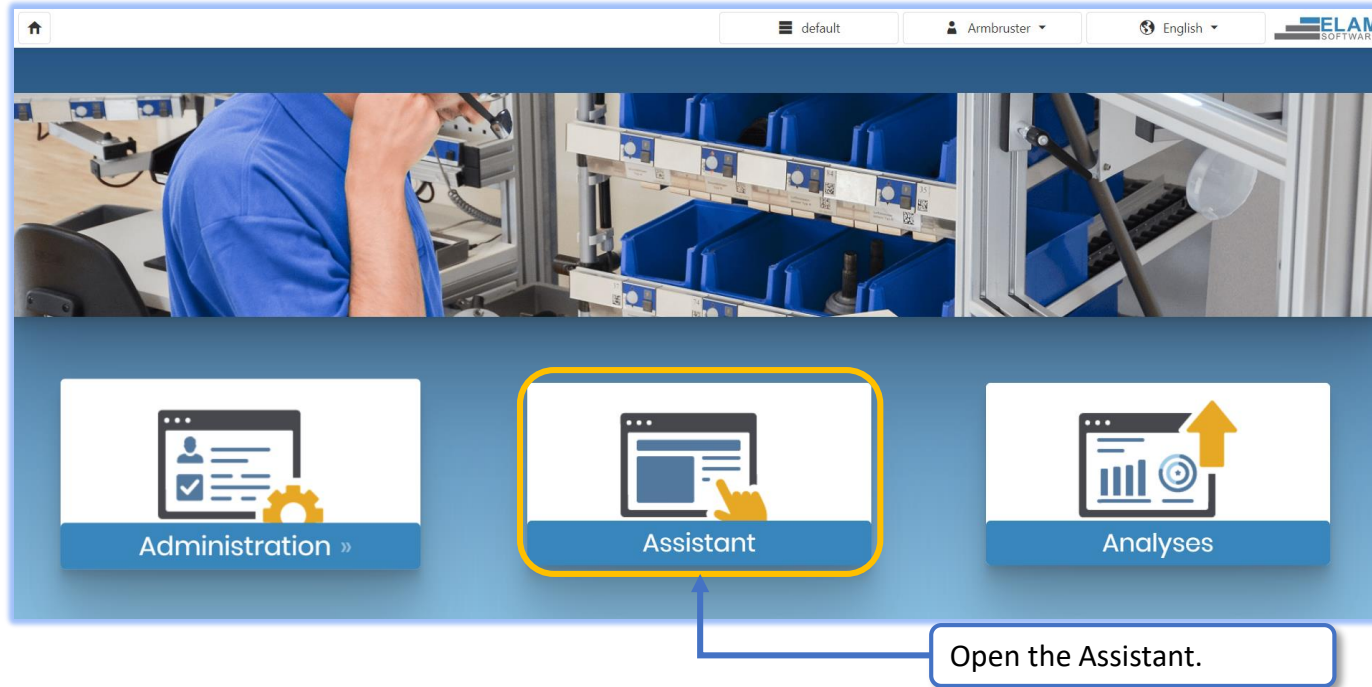


ELAM Assistant



Arnbruster Engineering GmbH & Co. KG

www.armbruster.de

This quickstep is valid for the software status 1.2.0-r

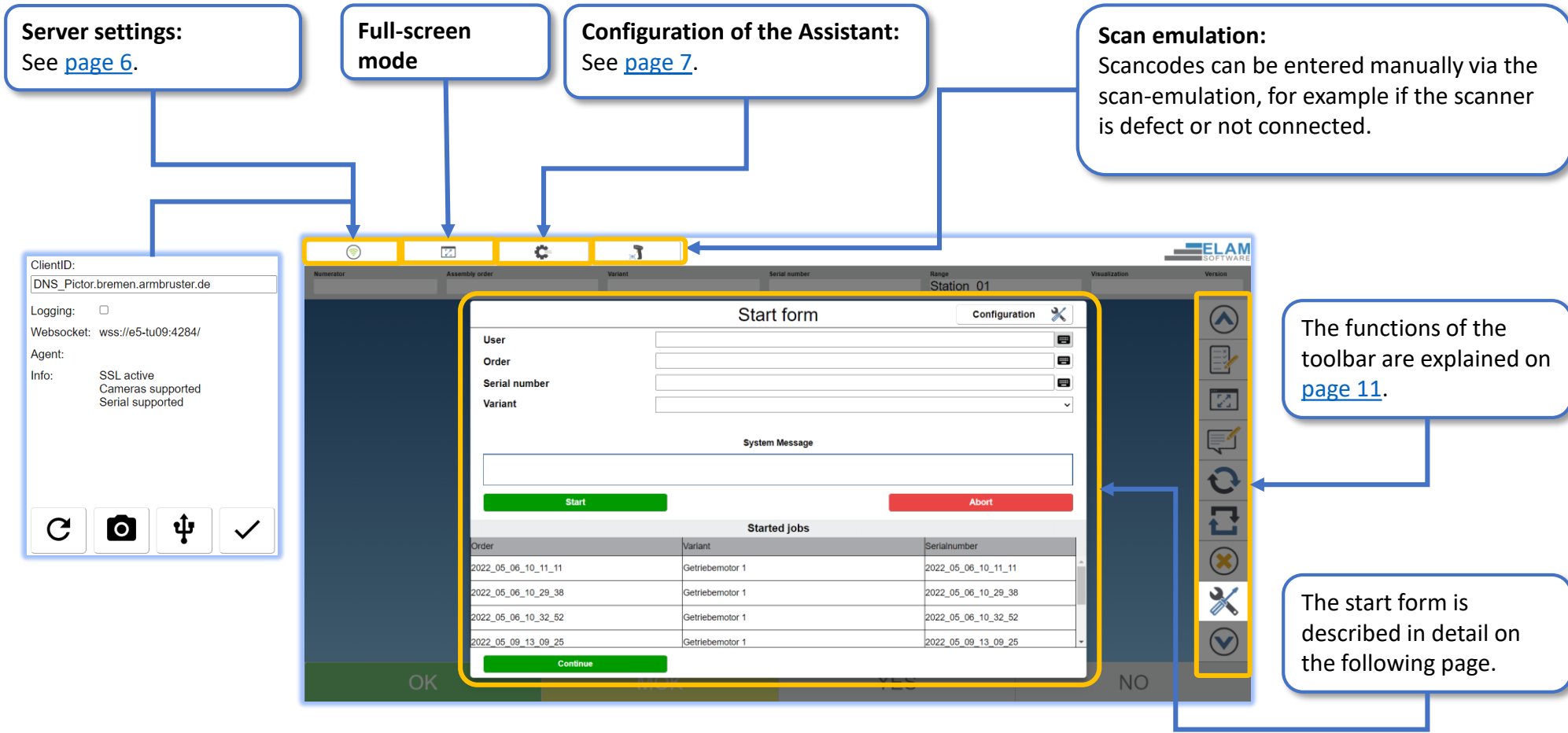
Version history				
Date	Version	Chapter	Changes	Author
28.03.2022	1.0		Document created according to the specifications	T. Siebert
27.02.2023	1.1		Proof reading and revision for software version 1.2.0-r	R. Thiel

Great care has been taken in the compilation of illustrations and text, but there may still be mistakes in the document. Please note that Armbruster Engineering GmbH & Co. KG cannot accept any liability for this. We are very grateful for any suggestion for improvement!

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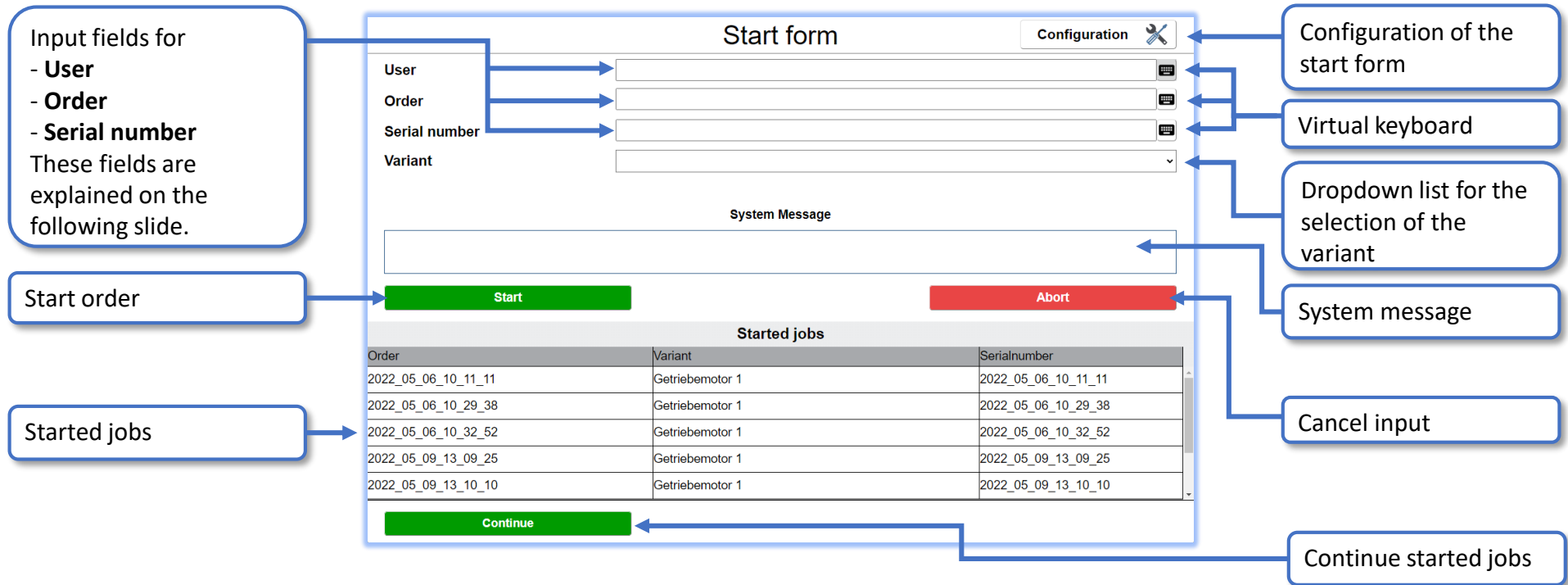
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1. Structure of the Assistant







2. Structure of the start form

The layout of the start form may depend on the configuration.



The design of the assembly order number, the serial number and the variant can be chosen freely (including special characters). In order to avoid incorrect entries, a filter for the input can be set in the configuration. This is explained in the Quickstep: „0.3-QS_Start form“.

2.1 Input fields of the start form

User	<input type="text"/>	
Order	<input type="text"/>	
Serial number	<input type="text"/>	
Variant	<input type="text"/>	

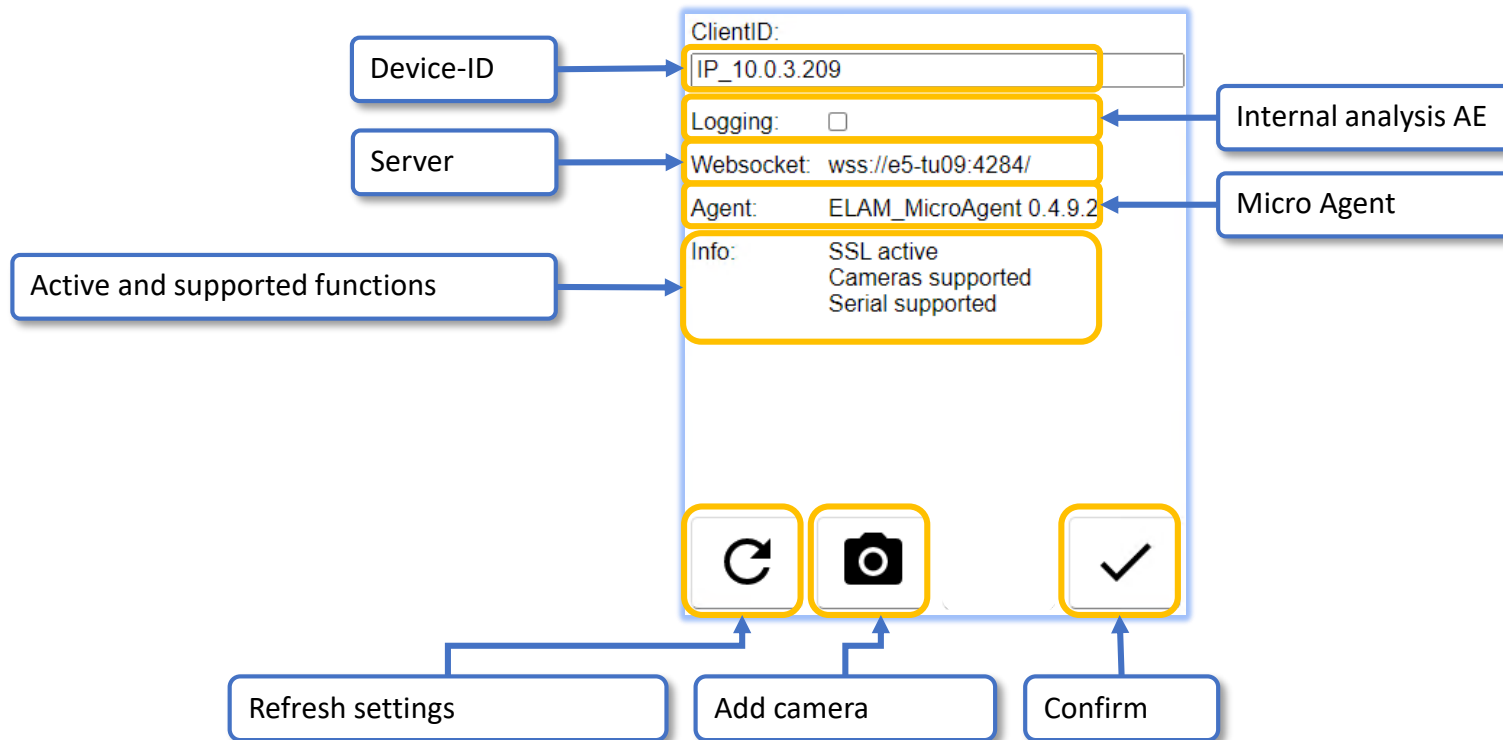
- The **user** is the registered employee. The authentication can be performed by scan, key or manual input.
- The **order** is the assembly or production order for 1 to n products. At lot size 1 the order number is unique for every product. At a lot size above 1 the product is identified by the serial number. The identification is executed via scan or manual input.
- The **variant** defines a specific workflow to be shown.

At least the variant has to be provided to start the assembly order. Every other information is optional. If a field is set active, the entry of information into this field is required to start the order. Every inactive field will automatically be filled with a timestamp.

To avoid incorrect entries or a confusion of entries, all of the entries can be restricted by a specification. The specification checks the captured data against defined criteria, for example length or start sign.

The configuration of these fields and the set up of their specifications is explained in the Quickstep: „**0.3 - QS_Start form**“.

2.2 Settings of the Webclient



3. Configuration of the Assistant

The screenshot shows the 'ELAM Wizard Configuration' window. On the left, three callout boxes with arrows point to specific settings in the wizard:

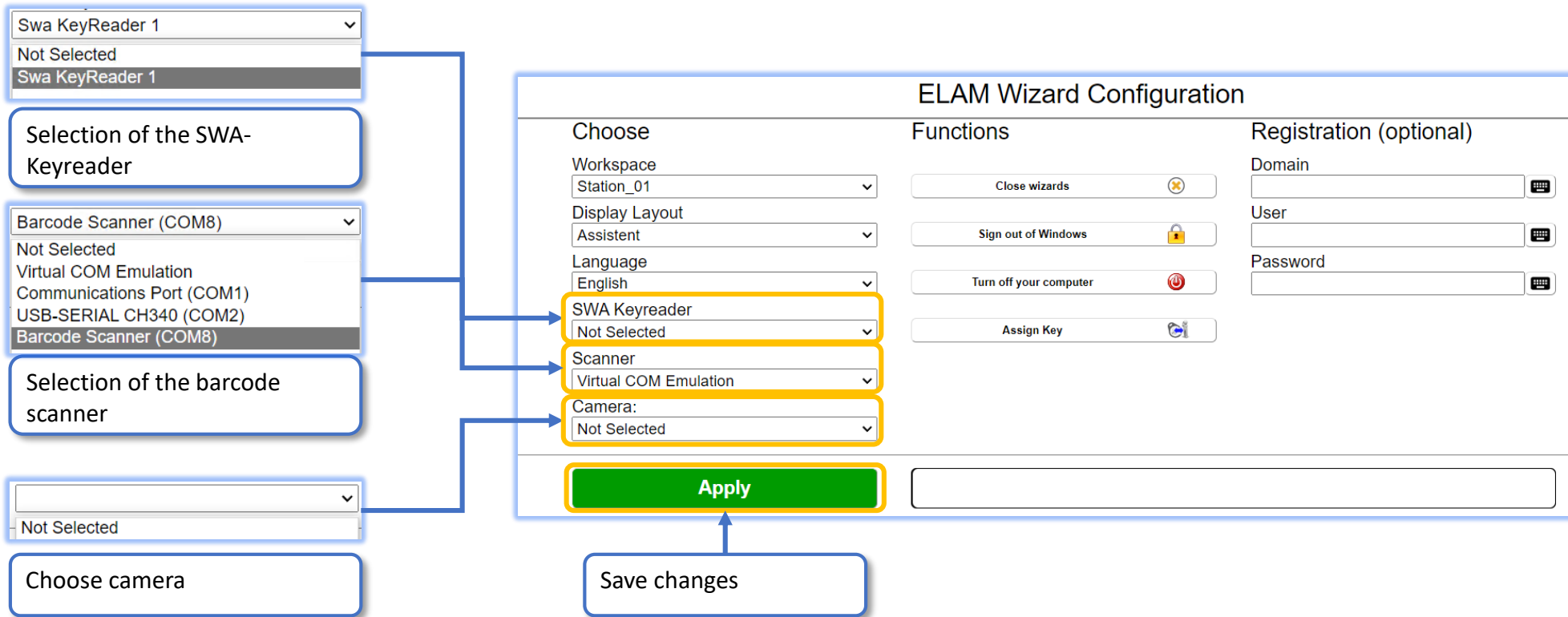
- Choose workspace:** Points to the 'Workspace' dropdown menu, which is currently set to 'Station 01'.
- Choose layout:** Points to the 'Display Layout' dropdown menu, which is currently set to 'Assistant'.
- Choose language:** Points to the 'Language' dropdown menu, which is currently set to 'English'.

The main configuration window is divided into three sections:

- Choose:** A list of settings including Workspace (Station 01), Display Layout (Assistant), Language (English), SWA Keyreader (Not Selected), Scanner (Virtual COM Emulation), and Camera (Not Selected).
- Functions:** A list of system functions with icons: Close wizards, Sign out of Windows, Turn off your computer, and Assign Key.
- Registration (optional):** Input fields for Domain, User, and Password.

A green 'Apply' button is located at the bottom left of the configuration window.

3. Configuration of the Assistant



3. Configuration of the Assistant

Close wizards,
Sign out of Windows,
Turn off your computer

Assign a key to a user

ELAM Wizard Configuration

Choose	Functions	Registration (optional)
Workspace Station_01	Close wizards Sign out of Windows Turn off your computer	Domain
Display Layout Assistant		User
Language English		Password
SWA Keyreader Not Selected	Assign Key	
Scanner Virtual COM Emulation		
Camera: Not Selected		

Apply

Registration (optional) with manual input of:
- Domain
- User
- Password

3.1 Assign a SWA key

ELAM Wizard Configuration

Choose	Functions	Registration (optional)
Workspace Station_01	Close wizards	Domain
Display Layout Assistent	Sign out of Windows	User
Language English	Turn off your computer	Password
SWA Keyreader Not Selected	Assign Key	
Scanner Virtual COM Emulation		
Camera: Not Selected		
Apply		

Click on „Assign Key“

3.1 Assign a SWA key

Insert a key. Its serial number will be displayed.

Choose a user and click „Assign“

The successful assignment is announced in the info field.

Current data

Serial number: 9D62D751

Info: Der Key ist nicht bekannt.

New assignment

User: Keiner, Test, ELAM, Armbruster

Assign

Current data

Serial number: 9D62D751

Info: Benutzer: Test
Nachname, Vorname: Test,
Key-Einsatz: 03.06.2022 10:18:35 - offen
Gruppe: n/a

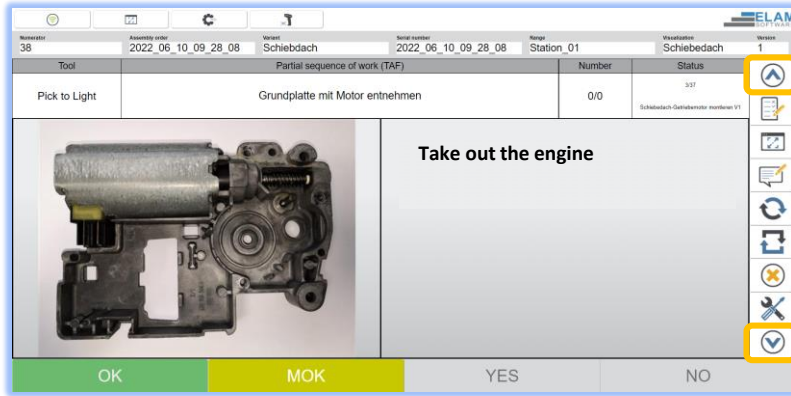
New assignment

User: Test

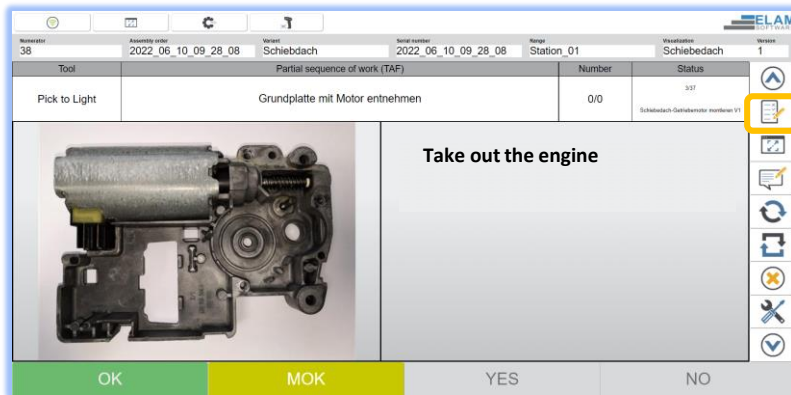
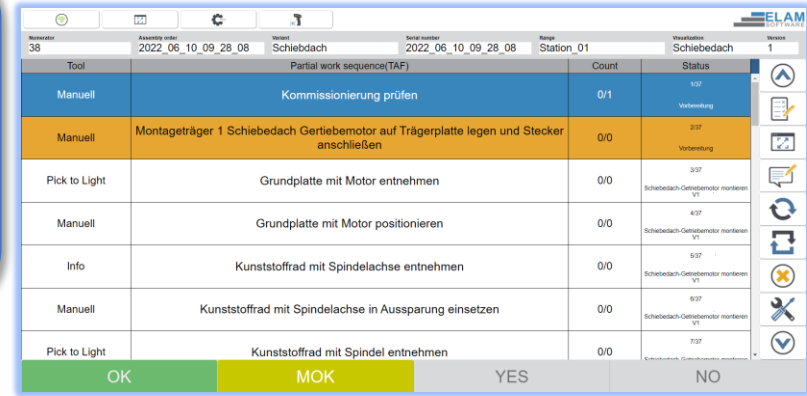
Info: Zuweisung angelegt

Assign

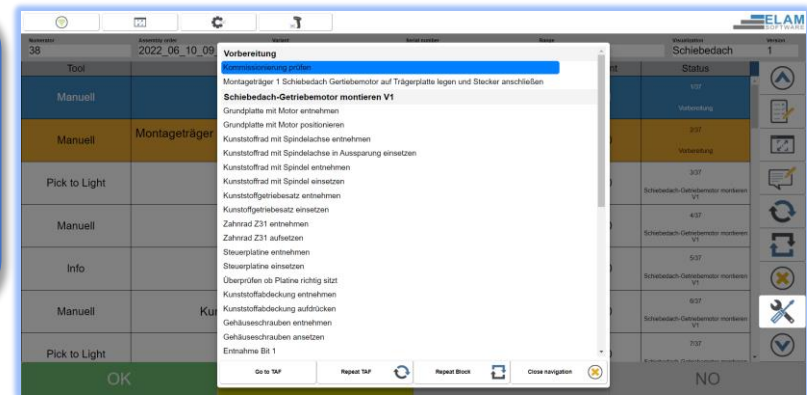
4. Description of the toolbar



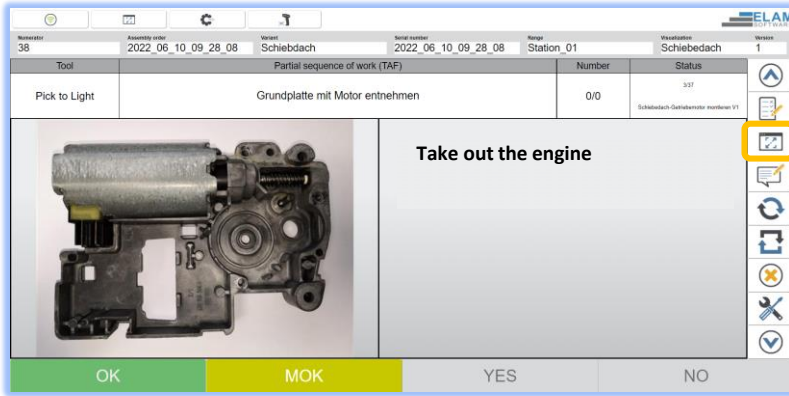
Up / Down:
Flip through TAFs.
To activate a TAF, it has to be repeated ([see page 14](#)). This is not possible in flowcharts.



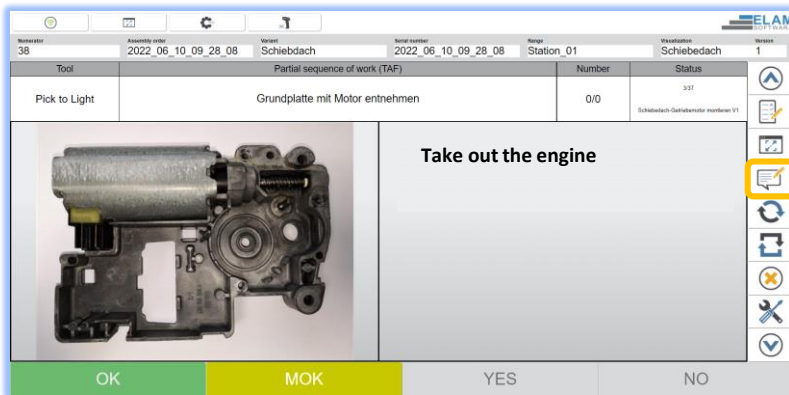
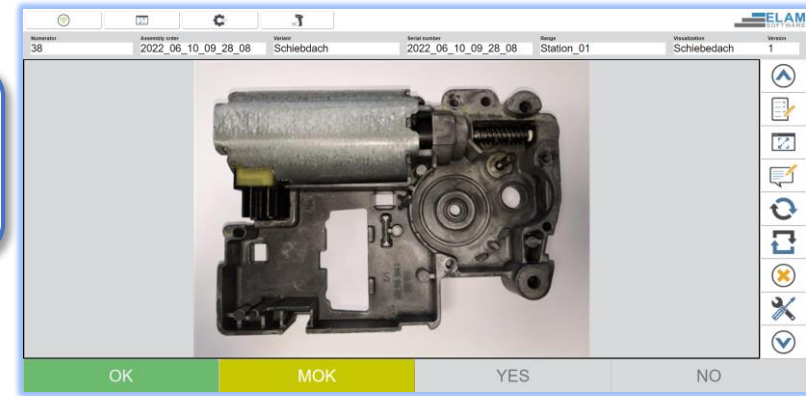
Open the navigation:
The navigation allows to jump to a TAF or block in order to repeat them. This is not possible in flowcharts.



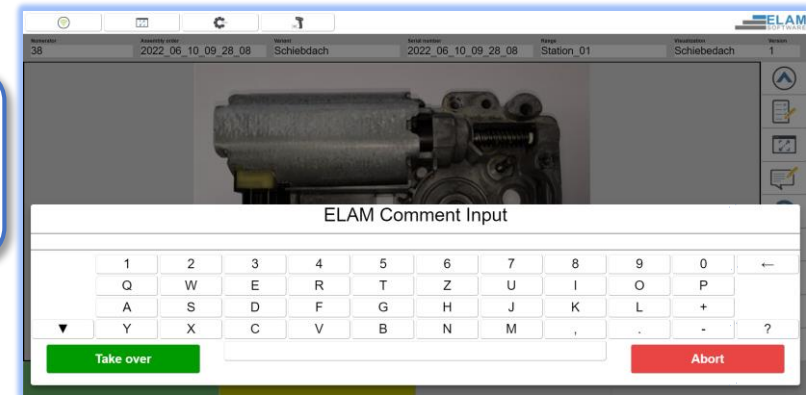
4. Description of the toolbar



Full screen mode:
The ELAM-Assistant is shown in full screen mode



Enter comment:
The comment can be seen in the analyses.



4. Description of the toolbar

Tool	Partial work sequence(TAF)	Count	Status
Manuell	Kommissionierung prüfen	0/1	137 Vorbereitung
Manuell	Montageträger 1 Schiebendach Getriebemotor auf Trägerplatte legen und Stecker anschließen	0/0	237 Vorbereitung
Pick to Light	Grundplatte mit Motor entnehmen	0/0	337 Schiebendach-Getriebemotor montieren V1
Manuell	Grundplatte mit Motor positionieren	0/0	437 Schiebendach-Getriebemotor montieren V1
Info	Kunststoffrad mit Spindelachse entnehmen	0/0	537 Schiebendach-Getriebemotor montieren V1
Manuell	Kunststoffrad mit Spindelachse in Aussparung einsetzen	0/0	637 Schiebendach-Getriebemotor montieren V1
Pick to Light	Kunststoffrad mit Spindel entnehmen	0/0	737 Schiebendach-Getriebemotor montieren V1

Repeat TAF:
Activates a TAF. If already executed before, it is repeated. Old values, if any, are crossed out in the documentation.

Tool	Partial sequence of work (TAF)	Number	Status
Pick to Light	Grundplatte mit Motor entnehmen	0/0	337 Schiebendach-Getriebemotor montieren V1

Take out the engine

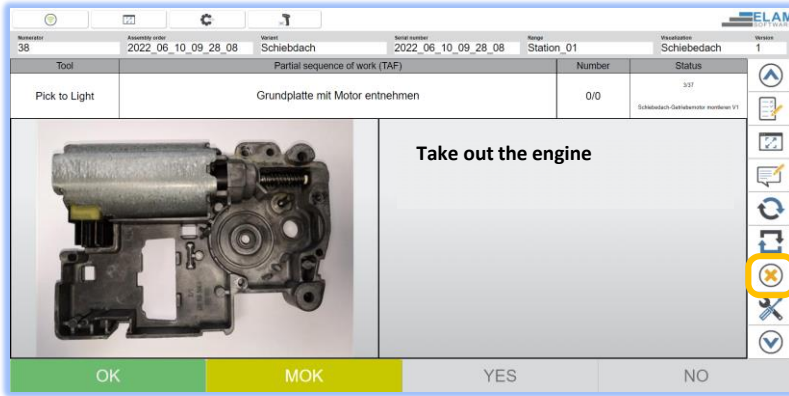
Tool	Partial work sequence(TAF)	Count	Status
Manuell	Kommissionierung prüfen	0/1	137 Vorbereitung
Manuell	Montageträger 1 Schiebendach Getriebemotor auf Trägerplatte legen und Stecker anschließen	0/0	237 Vorbereitung
Pick to Light	Grundplatte mit Motor entnehmen	0/0	337 Schiebendach-Getriebemotor montieren V1
Manuell	Grundplatte mit Motor positionieren	0/0	437 Schiebendach-Getriebemotor montieren V1
Info	Kunststoffrad mit Spindelachse entnehmen	0/0	537 Schiebendach-Getriebemotor montieren V1
Manuell	Kunststoffrad mit Spindelachse in Aussparung einsetzen	0/0	637 Schiebendach-Getriebemotor montieren V1
Pick to Light	Kunststoffrad mit Spindel entnehmen	0/0	737 Schiebendach-Getriebemotor montieren V1

Repeat Block:
Repeats a complete block by resetting the status of its TAFs and restarting the first one.

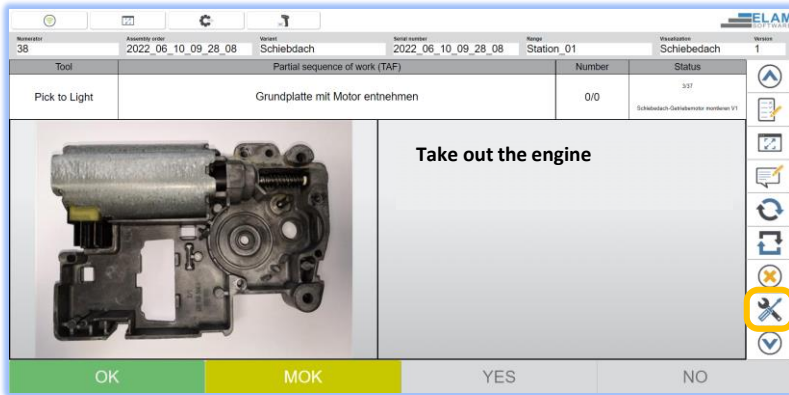
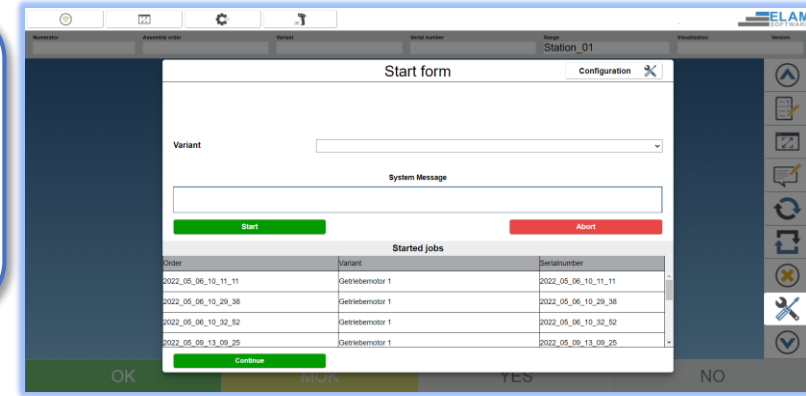
Vorbereitung

- Kommissionierung prüfen
- Montageträger 1 Schiebendach Getriebemotor auf Trägerplatte legen und Stecker anschließen
- Schiebendach-Getriebemotor montieren V1**
- Grundplatte mit Motor entnehmen
- Grundplatte mit Motor positionieren
- Kunststoffrad mit Spindelachse entnehmen
- Kunststoffrad mit Spindelachse in Aussparung einsetzen
- Kunststoffrad mit Spindel entnehmen
- Kunststoffrad mit Spindel einsetzen
- Kunststoffgetriebebauteil entnehmen
- Kunststoffgetriebebauteil einsetzen
- Zahnrad Z31 entnehmen
- Zahnrad Z31 aufstecken
- Steuerplatte entnehmen
- Steuerplatte einsetzen
- Überprüfen ob Platine richtig sitzt
- Kunststoffabdeckung entnehmen
- Kunststoffabdeckung aufdrücken
- Gehäuseschrauben entnehmen
- Gehäuseschrauben einsetzen
- Entnahme Ble 1

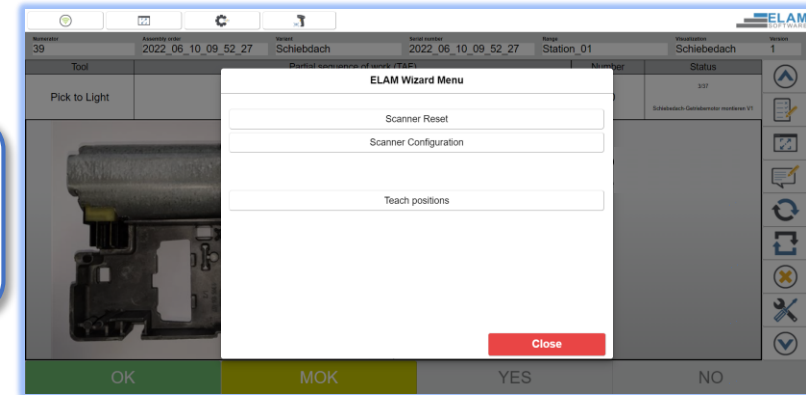
4. Description of the toolbar



Stop workflow:
Stop the visualisation and return to the start form. The current work process can be resumed later without any loss of progress.



Additional functions:
Submenu for additional functions, e.g. a scanner configuration sheet.



5. Abbreviations and definitions

Abbreviation	Description
Key	RFID chip for the authentication of employees
KeyReader	Reader for the SWA keys
QS	Quickstep, quick guide for the ELAM system
TAF	Partial sequence, a step to be executed in the visualisation
Visu	visualisation

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