

VARIO IT-SOLUTIONS GMBH



SMARTentry Print & Code

Documentation

Version 2025.4.0.1

14.04.2026

Installation und Einrichtung von SMARTentry Print & Code für bestehende und neue SALTO Installationen mit SHIP-Schnittstelle.

1. FOREWORD.....	2
2. INSTALLATION.....	2
2.1 Prerequisites	2
2.2 Setup	3
2.3 License File	3
3. BASIC SETUP	3
3.1 SALTO Settings	3
3.2 Basic Settings	5
3.2.1 Setting up the SALTO connection	5
3.2.2 Automatic Media Output encoder mode	6
3.2.3 Encoder mode "Encode medium" / "Encode medium without formatting"	6
3.2.4 Print & Code with Signature Pad	7
3.3 Edit / save / switch view (optional)	8
3.3.1 Edit view	8
3.3.2 Save/switch view	8
4. LIST OF PEOPLE.....	9
4.1.1 Legend	9
4.1.2 Search / Filtering.....	10
4.1.3 Assign and encode media	10
4.1.4 Optional: Select report before each print.....	11
5. CONTACT NOW.....	11

1. Foreword

SMARTentry Print & Code provides a database-less interface to SALTO via the SALTO SHIP protocol. The aim is to print lists of people or personal details, or to print and encode access cards. The layouts of the print editions used here can be freely adapted / personalized. If you also want to print images of people from SALTO, you need to establish a database connection to SALTO.

Important: Since access to the software takes place without a password request, access protection via security settings at file/folder level is necessary to meet GDPR requirements. Please also contact your data protection officer.

2. Installation

2.1 Prerequisites

SMARTentry Print & Code is an add-on program to SALTO Systems. The SALTO SHIP interface and a separate SALTO "**SAM kit with plain text printout of the codes**" are required for coding. Ask your SALTO dealer whether your SALTO SPACE installation meets these requirements.

To encode cards, a suitable printer with encoder is required. You can obtain a suitable printer with encoder from Heyden-Securit GmbH (www.heydensecurit.de).

If you are directly connected to the SALTO Systems database for photos, you must be using SQL Server Express or higher (not "Local-DB") in order to access the database remotely.

When using the signature module, a SQL Server Express or higher must be in use in order to remotely access the database to store the signature. This must not correspond to the SALTO database.

2.1.1 System Requirements

Operating system: Windows 11 or later. min. 1 GHz processor power (x86/x64) min. 1 GB RAM min. 500 MB of free disk space (depending on install size)

2.2 Setup

Start the SMARTentry setup and follow the installation steps.



2.3 License File

After the database has been successfully connected, specify the license file at the next startup.

You can obtain these from SMARTentry Sales.

<http://www.smartentry.de/>

3. Basic Setup

3.1 SALTO Settings

In the SALTO settings, activate the SHIP interface. Then restart the SALTO service so that these settings are applied.

 SALTO Dienst Konfiguration - DEMO — □ ×

[Über...](#)

Dienst Einstellungen | Dienst Port | Datenbank | Erweitert

SALTO Dienst Konfigurationsdaten

Dienstname:

Beschreibung:

Pfad zur ausführbaren Datei:
D:\Programme\SALTO\SaltoServiceRW_DEMO.exe

Starttyp: ▼

Starten als:

☐ Lokales System

☒ Benutzername:

Passwort:

Passwort bestätigen:

SALTO Dienst Start Kontrolle

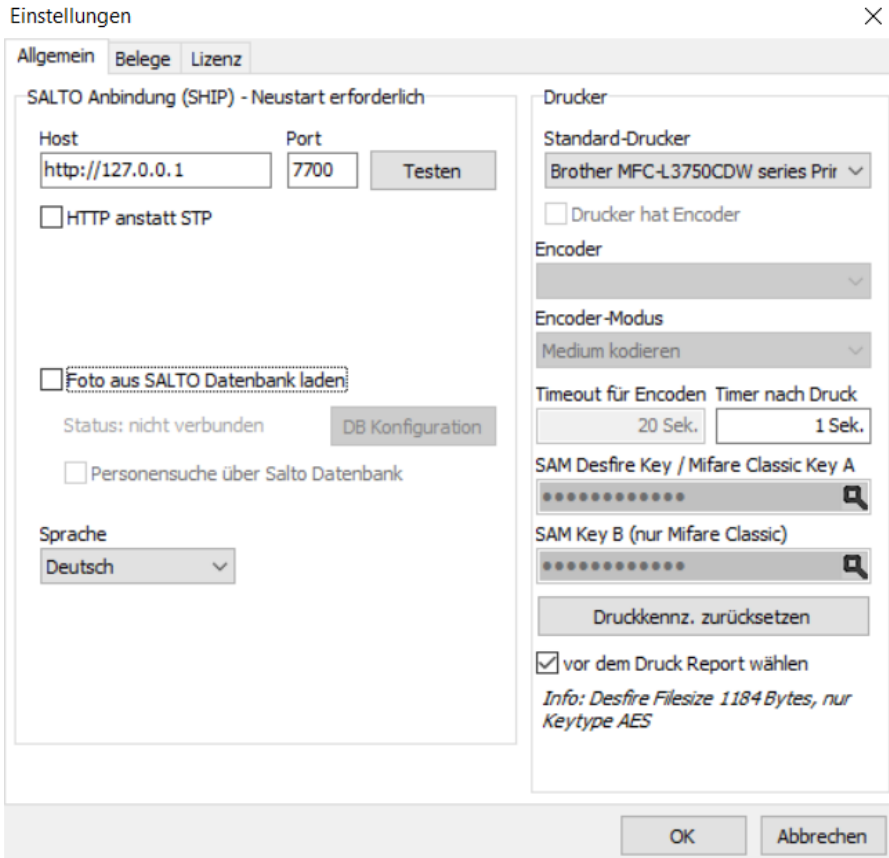
Dienststatus:



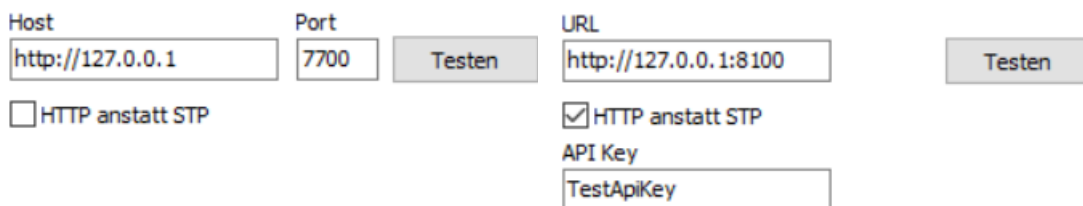
3.2 Basic Settings

3.2.1 Setting up the SALTO connection

Go to the settings and enter the SHIP Server IP and port in the "General" tab.



- The SALTO connection is done via STP or HTTP, if necessary, check your SALTO instance to see which connection is set there.



- If photos are also to be loaded, please activate the option "Load photo from SALTO database" and restart the software. Here you will be prompted to enter the database connection.
- There are currently 3 languages to choose from: German, English, French.
- If you also want to use print code (assign media via printer), please activate the encoder, select the appropriate driver and store the SAM keys (A + B) supplied by SALTO. For Desfire cards, use Key-A.

3.2.2 Automatic Media Output encoder mode

Here, the ROM code of the card is read and written in SALTO to the person's automatic media output.

Things to watch out for:

- The SALTO license "SPA Online" is required, as the module "Automatic Media Output" cannot be licensed individually.
- If no SALTO encoders are connected, a medium can still be activated and updated on an online reader.
- UIDs aka "ROM codes" that have already been assigned cannot be reused!
- If a person already has a medium, then the automatic media output does not work. The current medium must always be deleted first.
- Mifare Classic UIDs must be specified with right-padded zeros. Example:
"11223344000000"
- UIDs of Mifare Desfire have to be replaced bytewiese. Example:
"77665544332211"

3.2.3 Encoder mode "Encode medium" / "Encode medium without formatting"

With the help of the ROM code of the card, the data from SALTO is written directly onto the card.

"Encode medium": here the card is formatted beforehand, this is omitted with "Encode medium without formatting"

3.2.4 Print & Code with Signature Pad

Print & Code can be operated with a signature pad from signotec. ID cards can only be encoded or printed if a signature is stored in the database (separate database connection, → setup). The use of signatures means that only individual processing is possible.

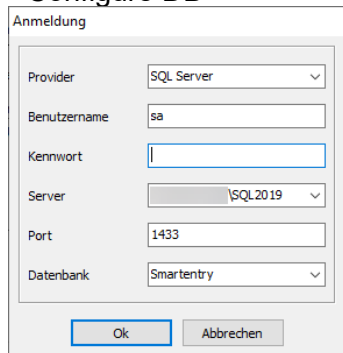
3.2.4.1 Requirements:

- LCD Signature Pad signotec Sigma
 - o signoPAD API **32-bit**
<https://www.signotec.com/service/downloads/treiber/>
- License extension for signature

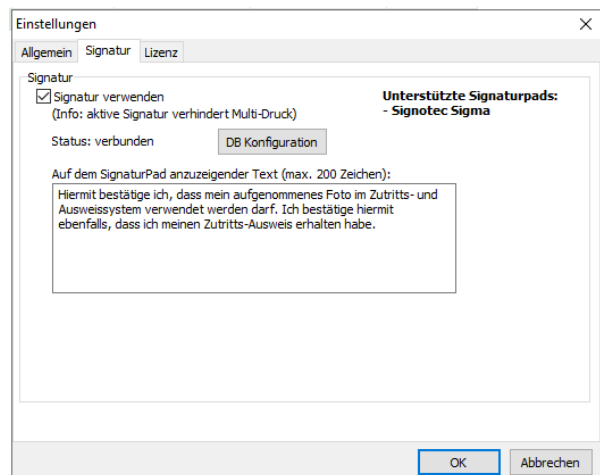
3.2.4.2 Fitment:

1. Setting up the signature pad with driver and API
2. Setup in Print & Code

- Activate "Use signature"
- Configure DB

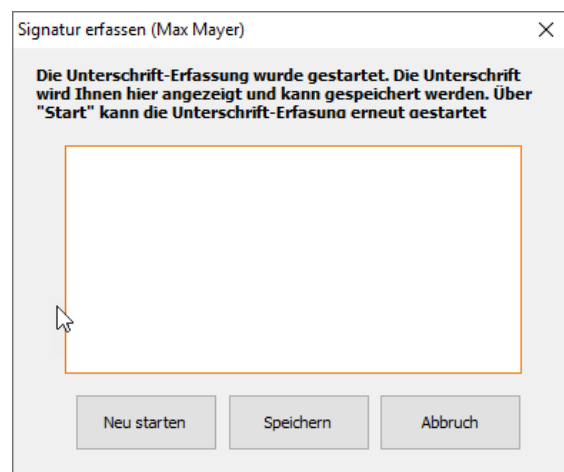


- If necessary, enter text that should be displayed on the signature pad.



3.2.4.3 Use:

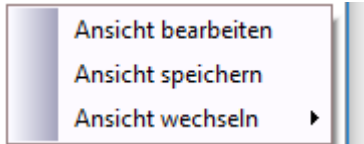
The signature query is now automatically called before a print (& code) operation if no signature has yet been deposited in the database. After the signature has been successfully captured, the print (& code) process will continue as usual.



3.3 Edit / save / switch view (optional)

In the people list, you can edit, save, and switch the view of the table.

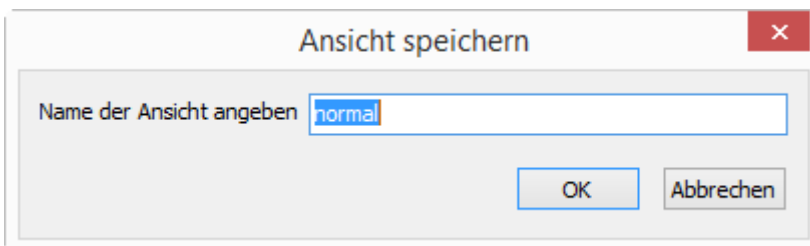
Right-click to get to the corresponding menu items.



3.3.1 Edit view

Here, a field opens at the bottom right with the columns that have not yet been used. You can now add, move, or remove columns by dragging and dropping. The column width can also be adjusted in this way. All changes will not be saved directly, please use "Save View" to save the view. To get out of editing, please click on the "Close window" icon in the field at the bottom right.

3.3.2 Save/switch view



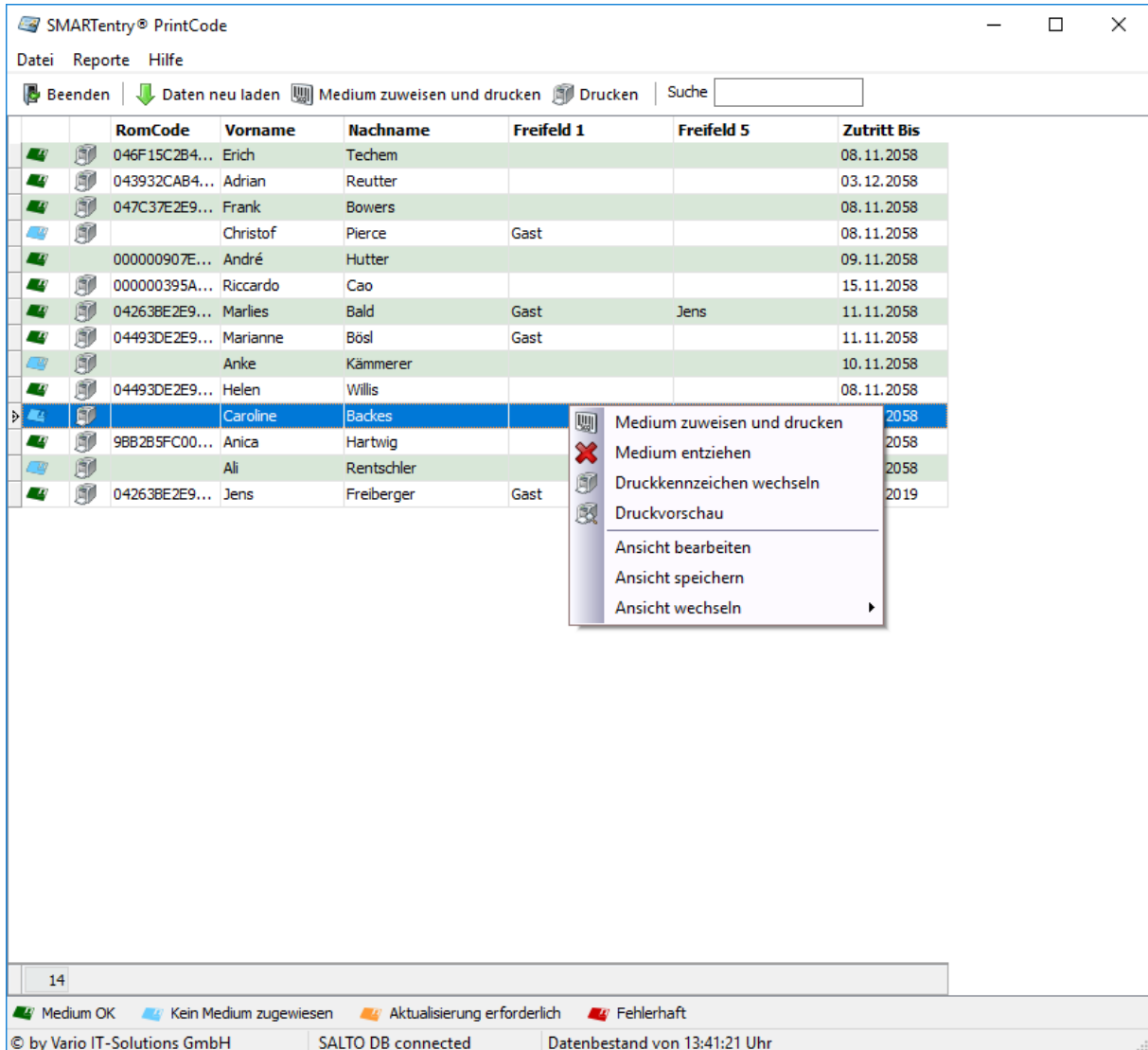
Here you can give your current view a name and save it.

Under "Switch View" you will now find the new name and can switch between the saved views.

After creating a new view, restart the software and then select the new view using the right mouse button.

4. List of people

When the program starts, all persons are loaded from SALTO. In the list of people you can see all SALTO people with the free spaces 1-5 (depending on the current view setting).



The screenshot shows the SMARTentry PrintCode application window. The menu bar includes 'Datei', 'Reporte', and 'Hilfe'. The toolbar contains icons for 'Beenden', 'Daten neu laden', 'Medium zuweisen und drucken', 'Drucken', and a search field. The main area displays a table of people with columns: RomCode, Vorname, Nachname, Freifeld 1, Freifeld 5, and Zutritt Bis. A context menu is open over the row for Caroline Backes, showing options: 'Medium zuweisen und drucken', 'Medium entziehen', 'Druckkennzeichen wechseln', 'Druckvorschau', 'Ansicht bearbeiten', 'Ansicht speichern', and 'Ansicht wechseln'. The status bar at the bottom shows '© by Vario IT-Solutions GmbH', 'SALTO DB connected', and 'Datenbestand von 13:41:21 Uhr'.

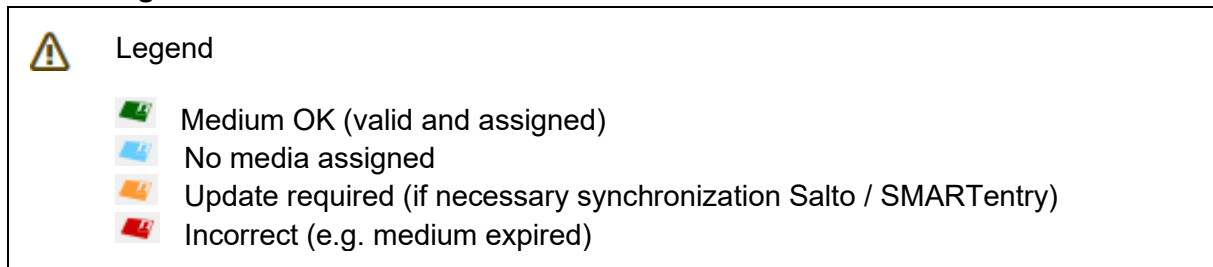
	RomCode	Vorname	Nachname	Freifeld 1	Freifeld 5	Zutritt Bis
	046F15C2B4...	Erich	Tedem			08.11.2058
	043932CAB4...	Adrian	Reutter			03.12.2058
	047C37E2E9...	Frank	Bowers			08.11.2058
		Christof	Pierce	Gast		08.11.2058
	000000907E...	André	Hutter			09.11.2058
	000000395A...	Riccardo	Cao			15.11.2058
	04263BE2E9...	Marlies	Bald	Gast	Jens	11.11.2058
	04493DE2E9...	Marianne	Bösl	Gast		11.11.2058
		Anke	Kämmerer			10.11.2058
	04493DE2E9...	Helen	Willis			08.11.2058
		Caroline	Backes			2058
	9BB2B5FC00...	Anica	Hartwig			2058
		Ali	Rentschler			2058
	04263BE2E9...	Jens	Freiberger	Gast		2019

14

Medium OK
 Kein Medium zugewiesen
 Aktualisierung erforderlich
 Fehlerhaft

© by Vario IT-Solutions GmbH | SALTO DB connected | Datenbestand von 13:41:21 Uhr

4.1.1 Legend



Legend

- Medium OK (valid and assigned)
- No media assigned
- Update required (if necessary synchronization Salto / SMARTentry)
- Incorrect (e.g. medium expired)

4.1.2 Search / Filtering

Using the search field, you can search for

- First Name
- Last Name
- Freifeld 1-5

. For a partial search, use the wildcard *.

 SMARTentry® PrintCode

Datei Reporte Hilfe

 Beenden |  Daten neu laden |  Medium zuweisen und drucken |  Drucken | Suche

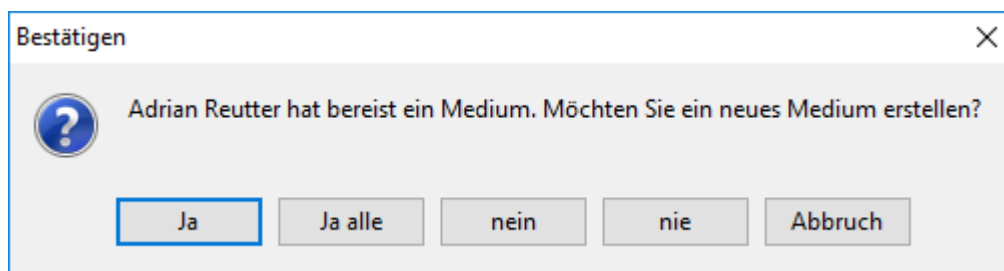
		ExtUserID	RomCode	Vorname	Nachname	Freifeld 1	Freifeld 5
		453711AFB5...		Christof	Pierce	Gast	
		847BA6EA4B...	04263BE2E9...	Marlies	Bald	Gast	Jens
		932B430E9A...	04493DE2E9...	Marianne	Bösl	Gast	
		VA220	04263BE2E9...	Jens	Freiberger	Gast	

4.1.3 Assign and encode media

By double-clicking in the list of people, you can assign (encode) a medium for the selected person and print the print layout. Note that a print layout was previously assigned as the default.

You can use the Ctrl or Shift key to select multiple records to encode (batch processing). After selection, click on "Assign media and print". If a person has already been assigned a medium, you will be asked whether you would like to assign a new medium with the person.

Query:



Yes = only deprive this person of the current medium and assign a new one (it will be asked for each person in the selection with medium)

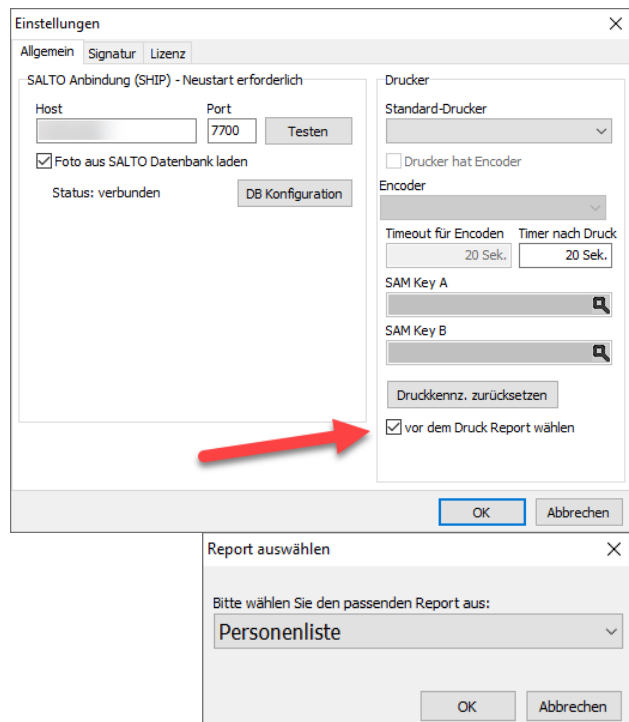
Yes all = assign a new one to each person in the lesson with medium

No = skip to this person of the selection (with medium)

Never = skip for all persons in the selection (with medium)

4.1.4 Optional: Select report before each print

If you are using several different print reports (e.g. different layouts for employees and visitors), you can select the option "Select Report before printing" under Settings/ General



Before each print, you will then be asked for the report to be printed.

5. Contact Now

For support and sales questions, please contact:

Heyden-Securit GmbH

service@heydensecurit.de

www.heydensecurit.de

Manufacturer:

Vario IT-Solutions GmbH Am Goldhügel 27a 48432 Rheine

www.smartentry.de

SMARTentry is a brand of Vario IT-Solutions GmbH.