



in.hub Forms 1.1.0

User Manual

Compatible with SIINEOS version 2.10.3 and above
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Legal information

Safety information

This documentation contains information that you must observe for your personal safety and to prevent material damage. Read the safety information carefully and always keep this documentation within easy reach.

The safety information is presented in descending order of hazard level as follows:

**DANGER**

Indicates an immediate hazard to humans. Failure to comply will lead to irreversible injuries or death.

**WARNING**

Indicates an identifiable hazard to humans. Failure to comply may lead to irreversible injuries or death.

**CAUTION**

Indicates an identifiable hazard to humans or potential material damage. Failure to comply may lead to reversible injuries or material damage.

**ATTENTION**

This gives you information that may lead to material damage if not complied with.

**NOTE**

A note gives you useful information on specific actions and issues.

**TIP**

A tip gives you tips, tricks or recommendations from in.hub that have proven to be helpful in handling the products.

Qualified personnel

The product associated with this documentation may only be handled by personnel qualified for the respective task. The device may only be installed, commissioned and operated in compliance with the associated documentation and the safety information contained therein.

Based on their training and experience, qualified personnel are able to recognize risks and avoid potential hazards when handling these products.

Knowledge of PCs, operating systems and web applications is a prerequisite. General knowledge in the field of automation technology is recommended.

Intended use

in.hub products may only be used for the applications specified in the corresponding technical documentation.

If third-party products and components are used, they must be recommended or approved by in.hub.

Proper storage, set-up, assembly, installation, commissioning, operation and maintenance are essential for the correct and safe operation of the products.

The permissible ambient conditions must be complied with. Instructions in the associated documentation must be followed.

Brands

All designations marked with the “®” symbol are registered trademarks. The other designations in this document may be trademarks whose use by third parties for their own purposes may infringe the rights of the owner.

Disclaimer

in.hub accepts no liability for product malfunctions resulting from improper handling, mechanical damage, incorrect application and improper use.

The contents of this document have been checked for conformity with the product described. However, deviations cannot be ruled out, so that we cannot guarantee complete conformity. The information in this publication is regularly reviewed. Necessary corrections are included in subsequent editions.

1. General information

This document contains all the information you need to commission and use the device/software.

The document is intended for service technicians, system administrators and/or installers who connect the product with other units, configure it and commission it.

1.1. Scope of delivery

1 x in.hub Forms voucher for using the app in SIINEOS

1 x User Manual as a PDF

1.2. Other applicable documents

In addition to this document, please observe the following documents. You can find these in the in.hub download portal at <https://download.inhub.de>:

- User Manual for the IoT (Internet of Things) operating system SIINEOS

1.3. Compatible hardware

The application software can be used on the following devices:

- HUB-GM200
- HUB-GM400
- HUB-EN200
- HUB-IO100
- HUB-SE100

1.4. Network security

Please bear in mind that the product does not communicate in encrypted form within the internal network. Therefore, protect your network from unauthorized access from outside! Any integration into a network with Internet access must be undertaken with great caution. It is imperative to speak with your system administrator in advance.

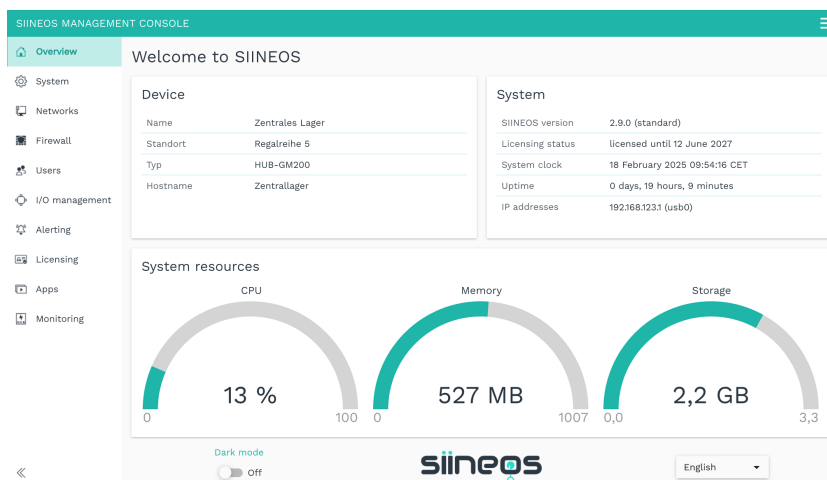
2. Setting up a working environment for in.hub Forms

Before you can use in.hub Forms, you must have completed the following steps:

- ✓ You have assembled and installed all the necessary devices, such as gateways, sensors, etc. For this, see the operating instructions of the respective device.
- ✓ You have installed at least the SIINEOS version valid for this in.hub Forms version. [Checking the SIINEOS version \[6\]](#) and [Installing SIINEOS updates \[7\]](#)
- ✓ You have uploaded the licence to SIINEOS. [Adding a licence file to SIINEOS \[10\]](#)
- ✓ The system administrator has received the software bundle for in.hub Forms from in.hub and installed it in SIINEOS. [Installing app updates \[10\]](#)
- ✓ The system administrator has also activated the app: **SIINEOS > Apps > in.hub Forms > Enable app.**

2.1. Checking the SIINEOS version

1. Go to the SIINEOS start page by selecting the **Overview** page on the left.



“Overview” start page (example)

2. Check the **SIINEOS version** field to see which version is installed on your gateway.
3. Go to the download portal at <https://download.inhub.de/siineos/> and check whether a new version of SIINEOS is available.

2.2. Installing SIINEOS updates

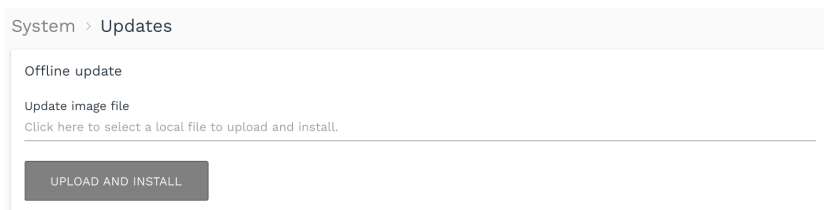


NOTE

You can only upload updates on the **System** page if you have a valid SIINEOS licence.

If the licence has expired, you will be informed that you cannot import any updates.

- Go to the download portal at <https://download.inhub.de/siineos/> and select the required SIINEOS package.
Two variants are available:
 - The complete software package in 64-bit architecture for the HUB-GM400 and the HUB-CX400
 - The complete software package in 32-bit architecture for modules, such as the HUB-GM200 or the HUB-EN200
 - SIINEOS Light without Docker containers with a smaller file size for the HUB-IO100
- When the download is complete, go to the **System** page in SIINEOS and select **Updates**.

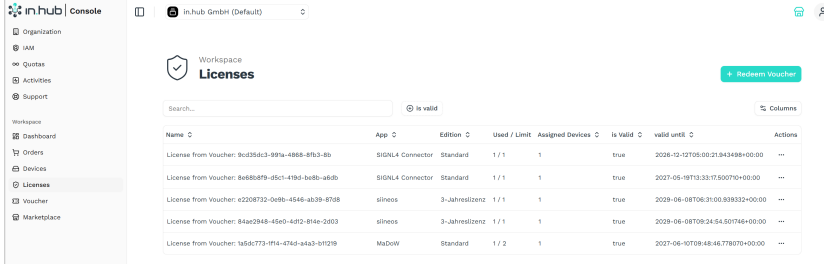


System > Updates

- Click in the **Update image file** input field and select the software package provided by in.hub in *.raucb format from your local file-storage location.
- Click on **Upload and install**.
The installation will proceed automatically and takes about 1 minute. After a successful installation, you will be asked whether you want to restart the gateway.
- Click on **Yes**.
- After restarting, check that the new version of SIINEOS is displayed on the **Overview** page.
- If the version has not been updated, proceed as follows:
 - First delete your browser cache and refresh the page in your browser.
 - if that doesn't work: Switch off the power to the gateway and switch it on again after a few seconds.
 - Start SIINEOS and check the version number.

2.3. Managing licences in in.hub Marketplace

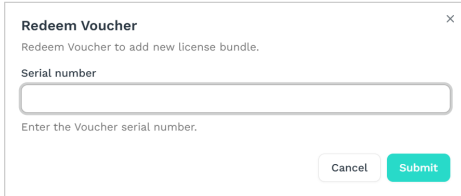
1. Register in in.hub Marketplace or log in if you already have an account.
<https://marketplace.continuum.inhub.de>
2. Go to the **Console > Licences** workspace and click the **Redeem Voucher** button to redeem the voucher you received from in.hub in advance.



Name	App	Edition	Used / Limit	Assigned Devices	Is Valid	valid until	Actions
License from Voucher: 9d2756d3-999a-4898-8f53-8b	SIGNL4 Connector	Standard	1 / 1	1	true	2026-12-12T05:00:21.943498+00:00	...
License from Voucher: 8d688d79-85c1-419d-bd8b-a5d0	SIGNL4 Connector	Standard	1 / 1	1	true	2027-05-19T13:33:17.50070+00:00	...
License from Voucher: e2206732-0e9b-4546-ab39-8738	siiness	3-JahresLizenz	1 / 1	1	true	2029-06-08T06:31:00.539332+00:00	...
License from Voucher: 84ac2949-45e0-4d12-814e-2053	siiness	3-JahresLizenz	1 / 1	1	true	2029-06-08T09:24:54.501746+00:00	...
License from Voucher: 1a5d7731-1f14-474d-a4a3-b1f219	MaDow	Standard	1 / 2	1	true	2027-06-10T08:48:46.778076+00:00	...

A dialogue window will open.

3. Enter the voucher's serial number and confirm with **Submit**.



Redeem Voucher

Redeem Voucher to add new license bundle.

Serial number

Enter the Voucher serial number.

Cancel Submit

The licence will then be generated.

4. Now switch to the **Devices** workspace and click the **+ Device** button to add the device you have purchased.
A dialogue window will open.
5. Enter all your device information and confirm with **Submit**.

Add Device ✕

Add new Device to your Workspace

Name

Name of the Device.

Mac Address / Hardware-ID

Enter the device's MAC address or the Hardware ID from Sileneos. MAC addresses can be provided with or without separators (., -, or .). The Hardware-ID is available at the top of the Licensing page in Sileneos.

Device Group

Select Device Group... ▾

Device Group the device belongs to.

Device Type

Select Device type... ▾

Device Type.

Description

Cancel
Submit

- In the row for the newly created device, click on **Actions > Edit**.

Name	Mac Address	Description	Type	Group	Actions
HUB-GM200	00:14:2D:EAE8		HUB-GM200	Werkhall1	...
Demokoffer	00:14:2D:C41D	HUB-GM200	HUB-GM200	Demonstratoren	...
HUB-EN200 - Energiemonitoring	00:14:2D:EA88	Energiemonitoring in Halle 1 Schaltschrank EQ2	HUB-EN200	Werkhall1	Edit Delete
Arbeitsplatz Logistik	00:14:2D:EA88	Eingabebereich HM1	HUB-SE100	Spritzgussmaschinen Halle 4	...

- Select the **Licences** tab and click the **Assign Licence** button.

HUB-EN200 - Energiemonitoring

+ Assign License

Device Licenses (0)

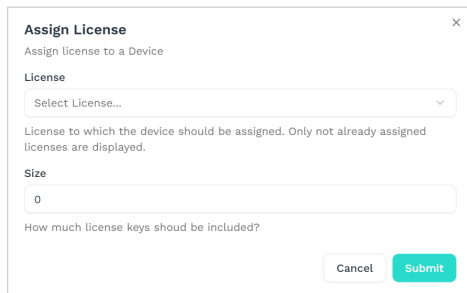
Search...

Columns

App	Edition	Size	is Valid	valid until	Actions
No Entries					

A dialogue window will open.

- Select the licence and the number of licences to be included in the licence file, then confirm with **Submit**.



Assign License

Assign License to a Device

License

Select License...

License to which the device should be assigned. Only not already assigned licenses are displayed.

Size

0

How much license keys should be included?

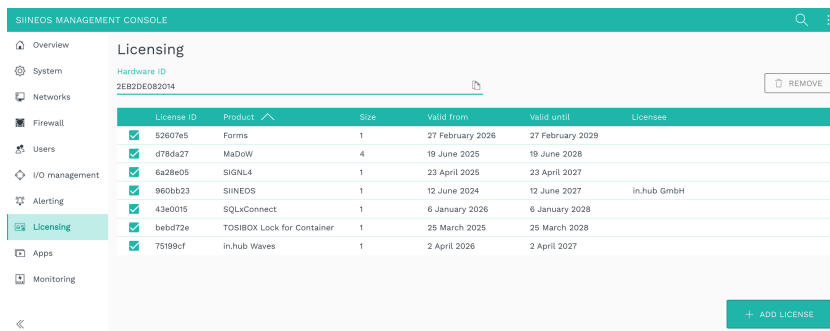
Cancel Submit

Either the download will start automatically, or you can click on **Actions > Download**.

2.4. Adding a licence file to SIINEOS

1. In SIINEOS, navigate to **Licensing**.

In the list, you will find all software licences that you have purchased and uploaded. The check mark in the first column indicates that the licence is valid.



SIINEOS MANAGEMENT CONSOLE

Overview System Networks Firewall Users I/O management Alerting **Licensing** Apps Monitoring

Licensing

Hardware ID: 2EB2DE082014 REMOVE

License ID	Product	Size	Valid from	Valid until	Licenses
<input checked="" type="checkbox"/> 5280765	Forms	1	27 February 2026	27 February 2029	
<input checked="" type="checkbox"/> d78d427	MaDoW	4	19 June 2025	19 June 2028	
<input checked="" type="checkbox"/> 6a28e05	SIGNL4	1	23 April 2025	23 April 2027	
<input checked="" type="checkbox"/> 960bb23	SIINEOS	1	12 June 2024	12 June 2027	in.hub GmbH
<input checked="" type="checkbox"/> 43e0015	SQLConnect	1	6 January 2026	6 January 2028	
<input checked="" type="checkbox"/> bebdf72e	TOSIBOX Lock for Container	1	25 March 2025	25 March 2028	
<input checked="" type="checkbox"/> 75189cf	in.hub Waves	1	2 April 2026	2 April 2027	

+ ADD LICENSE

“Licensing” page (example)

2. Click on **Add license**.
3. Select the licence file from your file directory and click on **OK**.
The licence is added to the list. From that point on, you can implement updates again or return to using a blocked app.
4. To remove a licence again – because it has become invalid, for example – select the licence ID and click on **Remove**.
This will not delete the licence file itself, but only remove it from the list.

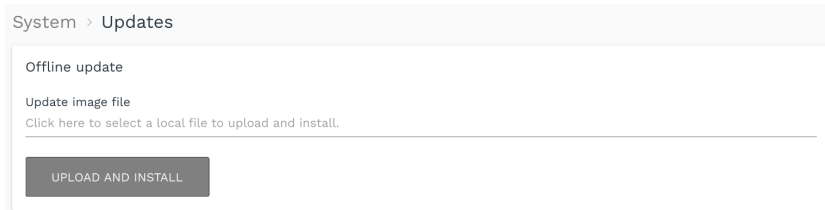


NOTE

Make sure that the system time of your device is correctly set and/or synchronized. Otherwise, the licence-file upload may fail.

2.5. Installing app updates

1. On the **System** page, click on **Updates**.



System > Updates

2. Click in the **Update image file** input field and select the software package provided by in.hub in *.raucb format from your local file-storage location.
3. Click on **Upload and install**.
Installation will proceed automatically.
After a successful installation, you will be asked whether you want to restart the gateway.
4. Click on **No**.
You do not need to restart the gateway when uploading apps.

3. Working with in.hub Forms

in.hub Forms is a user application (an app) in SIINEOS that allows you to create forms, input views and form fields, enabling you to enter any type of data and configure fields flexibly.

Before you start, make sure that the system administrator has activated the **in.hub Forms** app in SIINEOS: **SIINEOS > Apps > in.hub Forms > Enable app.**

3.1. Open in.hub Forms and make entries

1. Navigate to **SIINEOS > Apps > in.hub Forms.**
2. Open in.hub Forms by clicking on **Open app.**
You can only start data entry straight away if input views and forms with fields, input sources and data submission targets have already been created in the app administration.
3. Select the required input view or form on the left.

The screenshot displays the 'in.hub FORMS' interface for a form titled 'Laufzettel (H) Rollenoffset'. The form is titled 'Laufzettel | Docket' and has a green checkmark indicating 'Auftrag abgeschlossen'. The form fields are as follows:

Auftragsnr. Order no.	A9744	Datum Date	28.03.2026
Artikelnr. Article no.	891334600000	Qualitätshinweis / Quality notice Produkt erfüllt Qualitätskriterium A2+	
Chargennr. Batch no.	10201		
Produktionsschritt 1 Production step 1	Reinigungslauf Walze	Verantwortliche Person Responsible person	THi
Produktionsschritt 2 Production step 2	Papier einlegen	Verantwortliche Person Responsible person	THi
Produktionsschritt 3 Production step 3	Farbauftrag	Verantwortliche Person Responsible person	EBe
Produktionsschritt 4 Production step 4	Trocknen	Verantwortliche Person Responsible person	PLo

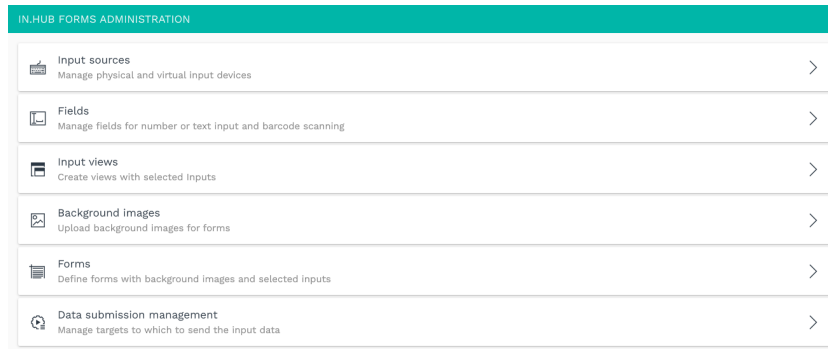
Additional interface elements include a language dropdown set to 'English', a 'Dunkler Modus' (Dark Mode) toggle set to 'Aus', and a 'SUBMIT' button in the top right corner.

Example of a form with a background image and input fields

4. Fill in all the fields using the configured input sources (e.g. the keyboard or a barcode scanner).
If an input meets the specifications (character length, allowed characters, etc.), a green checkmark will appear.
The **Submit** button is only activated when all fields are filled in and you can send the entries to the specified data submission target.

4. Administering in.hub Forms

1. Navigate to **SIINEOS > Apps > in.hub Forms**.
2. Open in.hub Forms administration by clicking on **Manage app**.
3. Select what you want to configure.

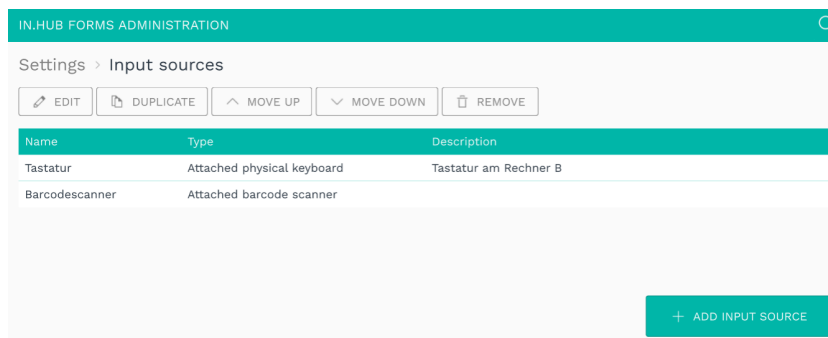


in.hub Forms administration

4.1. Configuring input sources

Here you can configure the physical and/or virtual input devices that can be used to acquire input.

1. On the **in.hub Forms Administration** start page, select **Input sources**. Any input sources that have already been created are displayed in a list.



List of created input sources (example)

2. Click on **Add input source**.
3. Enter the **Name** of the input source, e.g. “Barcode Scanner”.
4. In the **Type** drop-down list, select one of the pre-configured input sources.
5. Optional: Enter a **Description** for the input device.
6. Finally, click on **Save & close**.

4.2. Creating fields

1. On the **in.hub Forms Administration** start page, select **Fields**.
Any fields that have already been created are displayed in a list.

Name	Input source	Placeholder	Validation	Min length	Max length	Retain	Items	Used in
Auftragsnummer	Tastatur		Any characters	10	10	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Eingabemaske "Mitarbeiter"; Laufzettel Produktion
Chargennummer	Tastatur		Digits	3	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Laufzettel Produktion
Artikelnummer	Barcodescanner	Kleiner als die Artikelnummer	Any characters	3	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Laufzettel Produktion
Produktionsschritt	Tastatur	Wählen Sie den Produktionsschritt aus	Any characters	5	30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Laufzettel Produktion; Laufzettel Produktion; Laufzettel Produktion; Laufzettel Produktion
Verantwortliche Person	Tastatur	Tragen Sie ein, wer für den Produktionsschritt	Any characters	3	20	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Eingabemaske "Mitarbeiter"; Laufzettel Produktion; Laufzettel Produktion; Laufzettel Produktion; Laufzettel Produktion

List of created fields (example)

2. Click on **Add field**.
The setup wizard opens to guide you through the rule creation process. In the following, confirm each entry with **Next** or press **Enter**.
3. Enter the **Name** to be displayed next to the field. This name is visible to the user.
4. An **alias** is a transfer name that is only relevant for the transfer to the data submission target, e.g. an SQL database. The name you entered previously will be used automatically. However, you can also enter your own alias.
5. Select the **Input source** from the drop-down list.
The input sources that you have created yourself are displayed.
6. Select the **field type**, i.e. the type of field to be displayed for input.
7. In the **Configuration** step, you can now customise the relevant field type as required:

Text	Enter a placeholder to be displayed if the field is empty. Under Validation , select which characters should be permitted for input. For more complex text patterns, you can enter regex syntax under Custom regular expression . For example: For the 24-hour clock format hh:mm:ss, enter the expression <code>(?:[01]\d 2[0-3]):[0-5]\d:[0-5]\d</code> . Enter the minimum and maximum number of characters to be allowed.
Multiple-line text	Enter a placeholder to be displayed if the field is empty. Specify the maximum number of lines of text that may be entered. Enter the minimum and maximum number of characters to be allowed. You may enter any characters, including special characters, into this text field.
Drop-down list	Enter the title of the drop-down list. Add entries by either clicking Add or pressing Enter . Tick the Standard checkbox next to the entry you want to be preselected in the list. If you want to delete an entry, tick the Delete checkbox and click Remove .

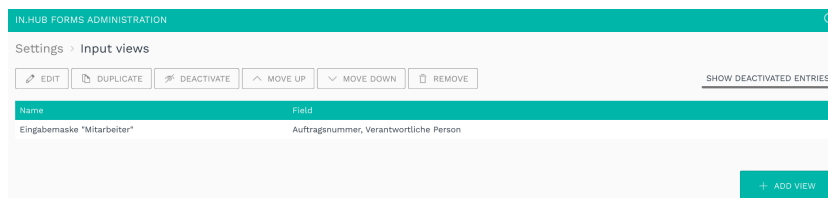
Check-box	Enter the title of the checkbox. Select whether you want the Enabled or Disabled checkbox to be inserted into your form or input view.
-----------	--

8. Set the **Retain after submission** slider to **On** if the field should continue displaying the value after submission.
9. Set the **Value is optional** slider to **On** if the field does not have to be completed prior to submission.
10. Click on **Finish**.
You will be taken back to the list of all created fields.
A UUID will then be assigned to the added field; you can view and copy this when you edit it again on the setup wizard. The UUID is required if you wish to retrieve the value in this field using an MQTT client.
11. If you want to remove a field again, select it in the list and click on **Remove**.
12. If you want to adjust the order of the fields, select a field in the list and click on **Move up** or **Move down**.
The order of the list is also the order for entry.

4.3. Creating input views

Input views consist of a series of input fields, without the need for a docket or an internal company template.

1. On the **in.hub Forms Administration** start page, select **Input views**.
Any input views that have already been created are displayed in a list.



List of created input views (example)

2. Click on **Add input view**.
The setup wizard opens to guide you through the rule creation process. In the following, confirm each entry with **Next** or press **Enter**.
3. Enter the **Name** of the input view.
This will appear on the left-hand side of the navigation area when you open the in.hub Forms app.
4. Under **Fields select**, you can select the fields to be displayed in your input view.
5. Click on **Finish**.
You will be taken back to the list of input views.

4.4. Uploading background images

This feature allows you to upload background images for use when creating a form. However, you can only remove a background image if it is not already being used in a form.

1. On the **in.hub Forms Administration** start page, select **Background images**.

Images that have already been created are displayed in a list.

Image	Width	Height	Used in
Laufzettel (D) Rollenoffset	1047	714	Laufzettel (D) Rollenoffset
Laufzettel (H) Rollenoffset	1047	714	Laufzettel (H) Rollenoffset
Weiterbildung an Stanz- und Prägemaschine	1047	714	

List of uploaded background images (example)

2. Click on **Add image**.
3. Select an **image** for a form from your local directory by clicking on **Upload image**. You can upload images in PNG format.
4. Specify an **image name**.
5. Finally, click on **Save & close**. You will be taken back to the list of images.



RECOMMENDATION

If you want to duplicate a form with its input fields but use a different background image for it, you should use the same image size as the original background image. Only then can you be sure that the input fields won't shift, and you will save time when creating the duplicate form.

4.5. Defining forms

This feature allows you to create forms with a background image and selected input fields. This is particularly useful for dockets that already exist within the company. You can scan the docket and superimpose the fields digitally.

1. On the **in.hub Forms Administration** start page, select **Forms**. Any forms that have already been created are displayed in a list.

Name	Picture	Fields
Laufzettel Produktion	Formular-Vorlage_App.PNG	Adressennummer, Auftragsnummer, Chargennummer, Produktionscode, Produktionsort, Produktionsmenge, Produktionszeit, Temperatur, Preis, Temperatur, Preis, ...

List of forms (example)

2. Click on **Add form**.

The setup wizard opens to guide you through the rule creation process. In the following, confirm each entry with **Next** or press **Enter**.

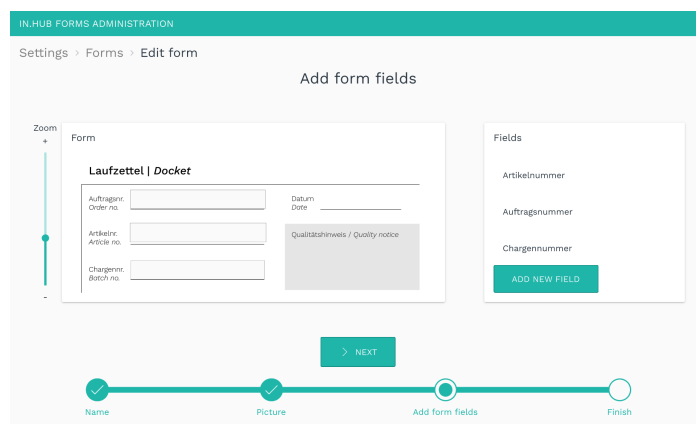
3. Enter the **Name** of the form.

4. Select the **Image** for your form from the drop-down list. In this list, you will find all the background images that you have uploaded already.

5. Under **Add form fields**, you can now arrange and scale the previously created fields on the form. Depending on the size of the image, it might take several seconds for the image to load.

Click on **Add new field** and select the field you wish to insert from the list.

A field will be inserted that you can move and resize. Repeat the process for each field.



“Add form fields” dialogue box

TIP: Unable to see a recently created field in the selection list? Refresh the page. The fields should now be visible.

6. Click on **Finish**.

You will be taken back to the list of forms.

4.6. Configuring data submission

On the **Data submission management** page, you can define the targets to which the input data will be sent.

Name	Source	Target	Configuration
Eingabemaske	Eingabemaske *Mitarbeiter*	App	SQLXConnect
Laufzettel	Laufzettel Produktion	App	SQLXConnect

List of data submission entries (example)

1. On the **in.hub Forms Administration** start page, select **Data submission management**.

2. Click on **Add data submission**.

The setup wizard opens to guide you through the rule creation process. In the following, confirm each entry with **Next** or press **Enter**.

3. Enter the **Name** of the data submission.

4. Under **Sources**, select the input views or forms from which the data is to be transferred to the target.

5. Select the **Type** of data submission target.

6. In the **Details** step, you can then customise the relevant submission target that you previously selected under **Type**:

Webhook	The data is sent to an external HTTP API endpoint. Enter the URL of the API endpoint. From the drop-down list, select the HTTP method to be used to send data.
VictoriaMetrics	The data is written to the local VictoriaMetrics time series database. Enter the Name of the Metrics to which the data is to be sent. Set the Save values as labels slider to On if at least one field contains letters or other characters rather than just numbers. VictoriaMetrics is not able to save these.
MQTT	The data is published to an MQTT topic. Enter all connection details, such as the MQTT broker address and the MQTT broker port , Username and Password to send the in.hub Forms data via the MQTT protocol. You can encrypt this connection via TLS (organization CA must be uploaded). Communication via WebSockets can also be activated if the broker only allows WebSocket connections. To do this, set the respective slider to On . In the Data format drop-down menu, you can also specify whether the data should be published as a JSON object or as Field values in subtopics . Set the Publish retained messages slider to On if you want the broker to send the last value published regarding this topic to all new clients. Finally, enter the Topic name under which the data is to be published.
App	The data is forwarded to an installed app that is capable of processing it. From the drop-down list, select the app to which the data is to be sent.

7. Click on **Finish**.

You will be taken back to the list of data submission targets.

4.7. Importing and exporting configurations from administration

1. To export all settings from **in.hub Forms Administration** and use them on other devices, click the **Export configuration** button.
The export file will be downloaded immediately. Depending on your browser's security settings, the export may be blocked as an unsafe download. In this case, you need to explicitly authorise the download.
2. To import an existing configuration file, click the **Import configuration** button.
A dialogue window will open. Please confirm that you wish to overwrite the existing configuration.
Once you have clicked **OK**, you can then select the configuration file.
3. Once the import has been completed successfully, confirm by selecting **Yes** to restart the device. Only then will the changes take effect.

5. FAQs

If you have any questions about the product, please visit the community at <https://community.inhub.de/> or contact our support team at service@inhub.de.

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