

Key Management Solution (KMS)

Protects and keeps your data for optimal security

User manual

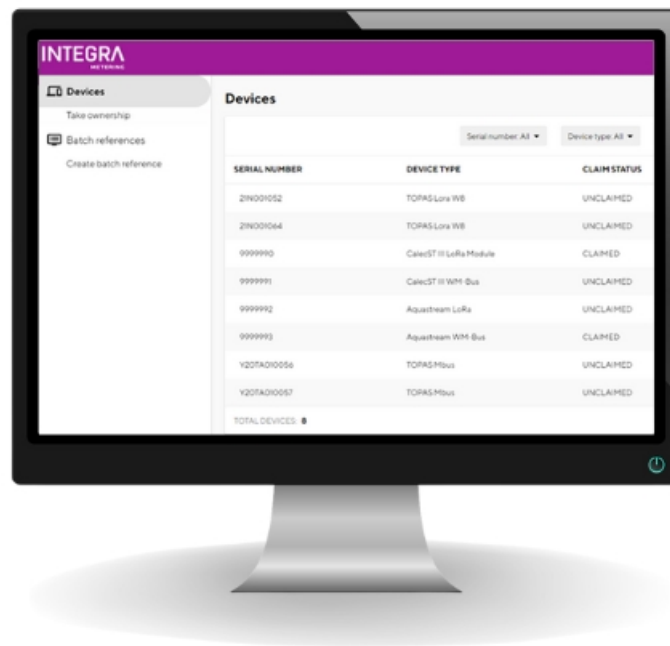


Table of contents

1.	Document publishing index	4
2.	Contact of the organisation	4
3.	Legal information on Key Management Solution (KMS)	4
4.	Legal provisions and responsibilities	4
4.1.	Responsibility and safety	4
4.2.	Conditions of use	4
4.3.	User responsibility	4
4.4.	Disclaimer clause	5
4.5.	Applicable laws clause	5
5.	General presentation	5
5.1.	Solution description	5
5.2.	Technical data	5
6.	Product compatibility	5
7.	Onboarding and initial configuration	6
7.1.	Reception of the email invitation	6
7.2.	Connecting	6
7.3.	Change the password	6
7.4.	Download key	7
8.	Account opening and access	7
8.1.	Connecting	7
8.2.	Change the password	7
9.	Admin menu	8
9.1.	Add an user	9
9.2.	Edit an user	9
9.3.	Change the password	10
9.4.	Add an invite	11
9.5.	Edit an invite	12
9.6.	Add an organisation	13
9.7.	Edit an organisation	14
9.8.	Add a partner	15
9.9.	Emails management	16
9.9.1.	Send test email	16
9.9.2.	Preview an email	17
9.9.3.	Create a copy	17
9.9.4.	Activate an email template	18
9.9.5.	Edit an email template	18
9.9.6.	Delete an email template	19
10.	Device catalog menu	20
10.1.	Devices	20
10.2.	Search filters	21
10.3.	Claim devices	21
10.4.	Download key	22
10.4.1.	Download an individual key	22
10.4.2.	Download all your keys	22
10.5.	Take ownership	23
10.6.	Batch reference visualisation	24



10. 7. Create a batch reference 24



1. Document publishing index

Document version	Date	Modification
01	28/05/2024	First version.

2. Contact of the organisation

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Reproduction of these instructions or parts of them in whatever form is not permitted without express written permission from the publisher. The figures and information in these instructions are subject to technical changes that become necessary to improve the product.

3. Legal information on Key Management Solution (KMS)

This guide is intended for trained specialised personnel. For this reason, no basic working steps are included.

NOTICE



Notice

Indicates an action or measure which, if performed incorrectly, may have an indirect effect on the operation of the device.

- Measures to avoid malfunctions.

4. Legal provisions and responsibilities

4.1. Responsibility and safety

The manufacturer disclaims any responsibility if safety instructions are not followed.

Unauthorised modifications, without written consent from the manufacturer, will result in the immediate expiration of product liability and warranty.

4.2. Conditions of use

The product is exclusively designed for the collection, analysis, presentation, and transmission of information.

The product must only be used in accordance with technical specifications; any other use is prohibited.

4.3. User responsibility

No information in this manual releases the user from the responsibility to assess the system configuration in terms of functionality and operational safety.



4. 4. Disclaimer clause

The present Key Management System (KMS) is provided "as is" without any warranty, express or implied, regarding its fitness for a particular purpose, merchantability, or non-infringement.

The company cannot guarantee the continuous availability, accuracy, or reliability of the KMS.

Users acknowledge that the use of this KMS is at their own risk.

Under no circumstances shall the company be held liable for direct, indirect, special, incidental, or consequential damages arising from the use or inability to use the KMS, even if the company has been advised of the possibility of such damages.

4. 5. Applicable laws clause

These terms of use and any dispute or claim arising out of, or related to, these terms shall be governed by and construed in accordance with the laws in force in the competent jurisdiction.

Any dispute arising from these terms will be submitted to the exclusive jurisdiction of a court or another forum agreed upon by the parties.

By accepting these terms of use, users acknowledge compliance with applicable laws and waive any right to a jury trial in connection with any dispute related to these terms of use or the use of the KMS.

5. General presentation

5. 1. Solution description

The INTEGRA Metering AG Key Management Solution (KMS) platform is accessible via your web browser and is secured by login.

The Cloud platform is easy to use thanks to secure HTTPS access, SSL certificates, and individual user access with account login and password.

You can view all your connected meters/ modules and display their status information. The management of your keys is secured and simplified by our ergonomic, easy-to-navigate interface.

5. 2. Technical data

Aspect	Essential Information
IoT Communications Security	<ul style="list-style-type: none"> • Emphasis on data protection • Encryption methods: DES, AES128, AES192, AES256, etc. - Key classification: LoRa keys, OMS keys • Recommendations for individual keys.
Key Management Solution (KMS) Role	<ul style="list-style-type: none"> • System (KMS) Role • Essential key management solution • Addresses technological advancements, security standards, market orientations: BSI TR3109, OMS 4.0, GDPR, ISO 27001
Security and Accessibility	<ul style="list-style-type: none"> • High security: ISO certification, automatic backups • Secure access via SSL certificates • Transparent process

6. Product compatibility

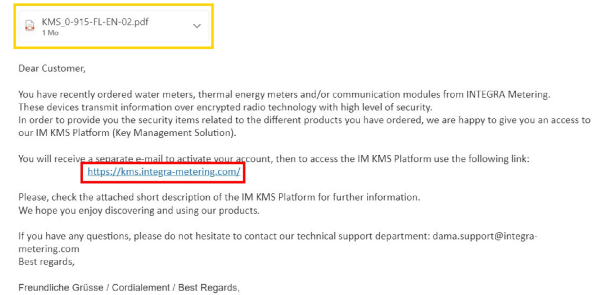
Products compatible with our Key Management Solution (KMS)		
	<ul style="list-style-type: none"> • TOPAS® SONIC • RUBIN® SONIC • aquastream® LoRa 	<ul style="list-style-type: none"> • aquaradio® Multicom • AMTRON® SONIC D • CALEC® ST III LoRa



7. Onboarding and initial configuration

7.1. Reception of the email invitation

- Check your email .
- You will receive an invitation email from "evo.elvaco.se" accompanied by an information document. Accompanied by an information document.
- Click on the link. The invitation is limited in time.

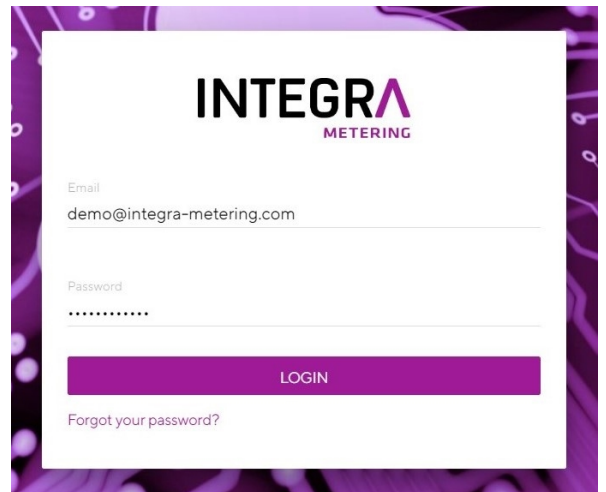


7.2. Connecting

After visiting the website : <https://kms.integra-metering.com/#/login>



Enter your username and password as provided by your administrator beforehand via email.

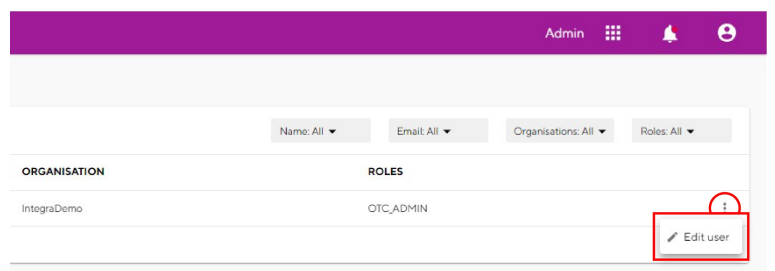


7.3. Change the password

You can view all the users associated with this account in the "User" menu.

Users +			
NAME	EMAIL	ORGANISATION	ROLES
Demo Integra	demo@integra-metering.com	IntegraDemo	OTC_ADMIN
TOTAL USERS: 1			

- Click on the "Edit user" menu button.



When you log on for the first time, it is essential to change your password.

- Enter a new complex password. It must be at least 12 characters long and contain upper and lower case letters, numbers and special characters.
- Click on the "Change password" button.

7. 4. Download key

- To download your keys go to the Device catalog > Devices (see chapter "Devices" on page 20).
- Make sure that the Claim status of your device is "Claim device". In order to download your keys, click on "Claim device" (see chapter "Claim devices" on page 21).
- Download your keys individually (see "Download an individual key" on page 22), or download all your keys (see "Download all your keys" on page 22).

8. Account opening and access

8. 1. Connecting

After visiting the website : <https://kms.integra-metering.com/#/login>



Enter your username and password as provided by your administrator beforehand via email.

8. 2. Change the password

You can view all the users associated with this account in the "User" menu.

Users +

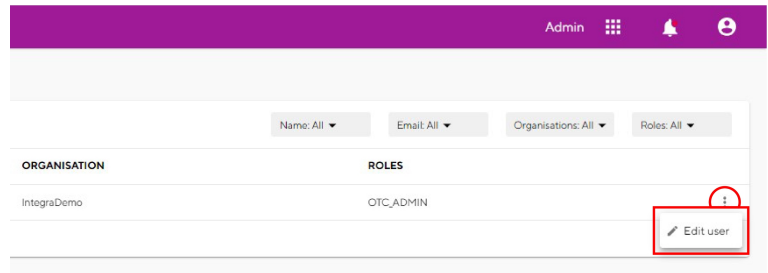
Name: All ▾ Email: All ▾ Organisations: All ▾ Roles: All ▾

NAME	EMAIL	ORGANISATION	ROLES
Demo Integra	demo@integra-metering.com	IntegraDemo	OTC_ADMIN

TOTAL USERS: 1

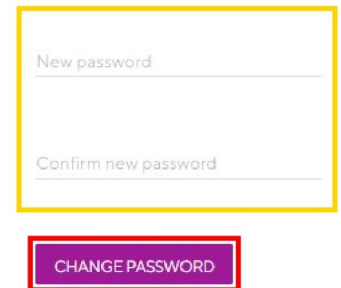


- Click on the "Edit user" menu button.



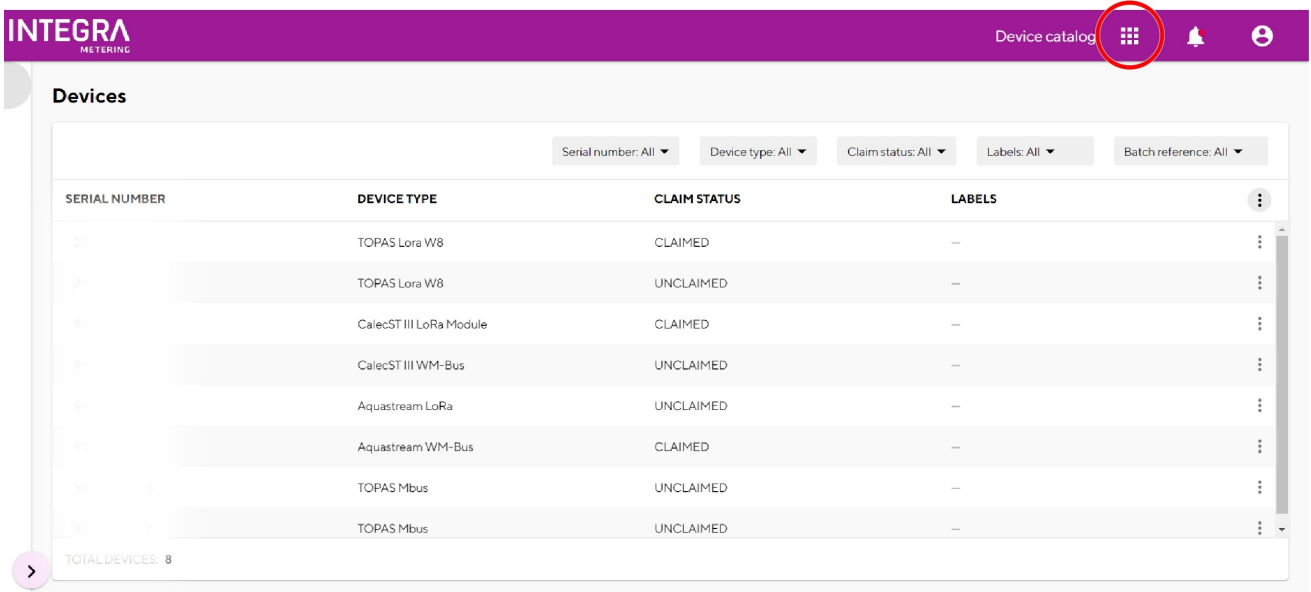
When you log on for the first time, it is essential to change your password.

- Enter a new complex password. It must be at least 12 characters long and contain upper and lower case letters, numbers and special characters.
- Click on the "Change password" button.

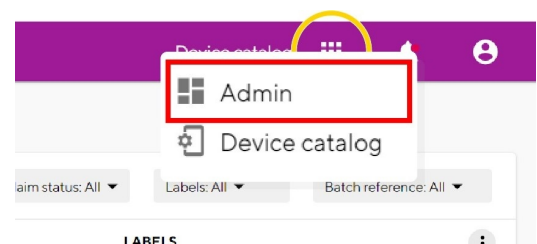


9. Admin menu

- To access the Admin menu, go to the home page and click on the following button.



- Click on the "Admin" button



9. 1. Add an user

You can view all the users associated with this account in the "User" menu.

Users +

NAME	EMAIL	ORGANISATION	ROLES
Demo Integra	demo@integra-metering.com	IntegraDemo	OTC_ADMIN

TOTAL USERS: 1

- Click on the "User" menu button.
- Click on the "Add a user" button or on the "+" button.

- Fill in your personal details.
- Click on the "Save" button.

Add user

Name

Email

Organisation

User roles ?

User language

CSV column delimiter

CSV thousands separator

Password

SAVE

9. 2. Edit an user

You can view all the users associated with this account in the "User" menu.



Users +

Name: All | Email: All | Organisations: All | Roles: All

NAME	EMAIL	ORGANISATION	ROLES
Demo Integra	demo@integra-metering.com	IntegraDemo	OTC_ADMIN

TOTAL USERS: 1

- Click one the "Edit user" menu button.

Admin

Name: All | Email: All | Organisations: All | Roles: All

ORGANISATION	ROLES
IntegraDemo	OTC_ADMIN

Edit user

- Fill in your personal details.
- Click on the "Save" or "Change password" button.

Profile

<p>Name: Demo Integra</p> <p>Email: demo@integra-metering.com</p> <p>Organisation: IntegraDemo</p> <p>OTC admin</p> <p>User language: English</p> <p>CSV column delimiter: ;</p> <p>CSV thousands separator:</p> <p>SAVE</p>	<p>New password</p> <p>Confirm new password</p> <p>CHANGE PASSWORD</p>
--	---

9. 3. Change the password

You can view all the users associated with this account in the "User" menu.

Users +

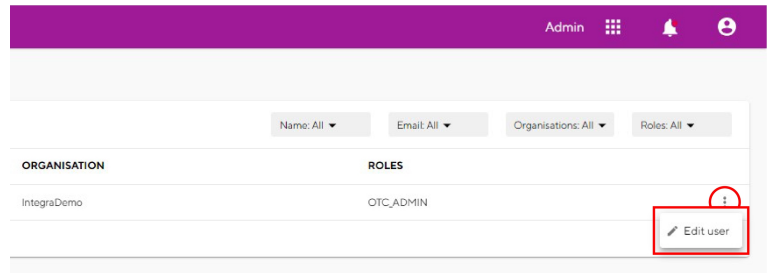
Name: All | Email: All | Organisations: All | Roles: All

NAME	EMAIL	ORGANISATION	ROLES
Demo Integra	demo@integra-metering.com	IntegraDemo	OTC_ADMIN

TOTAL USERS: 1



- Click on the "Edit user" menu button.



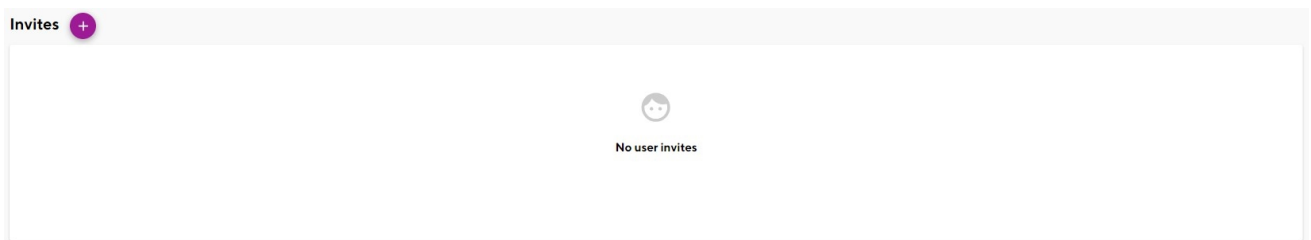
When you log on for the first time, it is essential to change your password.

- Enter a new complex password. It must be at least 12 characters long and contain upper and lower case letters, numbers and special characters.
- Click on the "Change password" button.

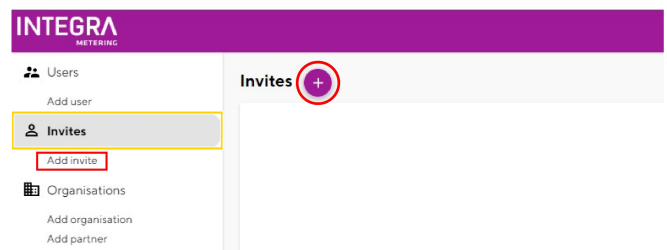
CHANGE PASSWORD

9. 4. Add an invite

You can view all the invites associated with this account in the "Invites" menu.



- Click on the "Invites" menu button.
- Click on the "Add invite" button or on the "+" button.



- Fill in your personal details.
- Click on the "Save" button.

Add invite

Name

Email address (optional)

Organisation ? Which organisations can I invite users to?

User roles

Prepared state, will be activated when email is sent

SAVE

- Review your information and complete as necessary. You can also preview the email .
- Click on the "Send" button.

Name
Demo-NAH

Organisation
IntegraDemo

State
PREPARED

Signup link
<https://integrademo.evo.elvaco.se>

Roles
OTC_ADMIN

Email address @integra-metering.com

Template that will be used: System Default Invite Email (en)

PREVIEW EMAIL

Admin users for your organisation can customize outbound emails

If you send the invitation email from Evo, the email address used will be saved in the database. If you'd rather the email address was not saved here, copy the activation link and send the email from your own email client.

User language
English

SEND **CANCEL**

- A confirmation message appears to inform you about the email being sent.

We sent an email to Nawel.Haddad@integra-metering.com. If you do not receive any email, please contact support@elvaco.se

9. 5. Edit an invite

You can view all the users associated with this account in the "User" menu.

Users +

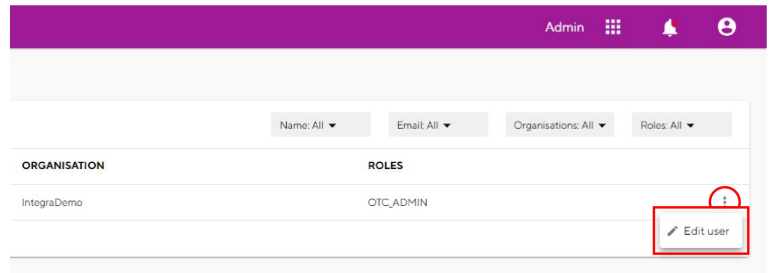
Name: All | Email: All | Organisations: All | Roles: All

NAME	EMAIL	ORGANISATION	ROLES
Demo Integra	demo@integra-metering.com	IntegraDemo	OTC_ADMIN

TOTAL USERS: 1



- Click on the "Edit user" menu button.



- Fill in your personal details.
- Click on the "Change password" button.

New password

Confirm new password

CHANGE PASSWORD

9. 6. Add an organisation

NOTICE



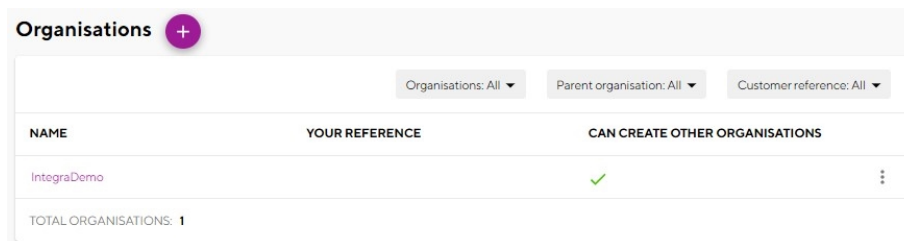
Notice

Advanced function

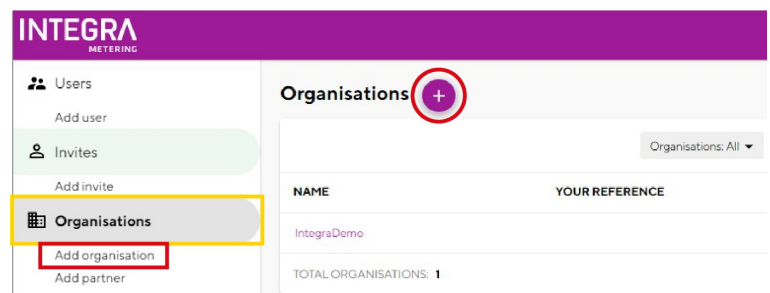
Not available to all users, depending on your access rights.

- To gain access, contact the administrator, who will issue your authorisation.

You can view all existing organisations linked to this account in the "organisations" menu.



- Click on the "Organisation" menu button.
- Click on the "Add organisation" button or on the "+" button.



- Fill in your personal details.
- Click on the "Save" button.

9. 7. Edit an organisation

NOTICE



Notice

Advanced function

Not available to all users, depending on your access rights.

- To gain access, contact the administrator, who will issue your authorisation.

You can view all the organisations associated with this account in the "Organisation" menu.

NAME	YOUR REFERENCE	CAN CREATE OTHER ORGANISATIONS
IntegraDemo		✓

TOTAL ORGANISATIONS: 1

- Click on the "Edit organisation" menu button.

NAME	YOUR REFERENCE	CAN CREATE OTHER ORGANISATIONS
IntegraDemo		✓

TOTAL ORGANISATIONS: 1

Edit organisation



- You can modify your organisation's details and also copy its ID.
- Click on the "Save" button.

9. 8. Add a partner

NOTICE



Notice

Advanced function

Not available to all users, depending on your access rights.

- To gain access, contact the administrator, who will issue your authorisation.

NOTICE



Notice

Available function

This would be done if the organisation already exists in the system, but not visible in your organisations.

- To see the status of your organisation, see chapter "Add an organisation" on page 13.

- In the Organisation menu. Click on the "Add partner" menu button.
- The guest will need to copy their organisations ID and provide it to you.
- Fill in the field.
- Click on the "Save" button.



9. 9. Emails management

NOTICE



Notice

Advanced function

Not available to all users, depending on your access rights.

- To gain access, contact the administrator, who will issue your authorisation.

You can view all the email templates linked to this account in the "Email " menu. You can use the filters to facilitate your search.

NAME	TYPE	LANGUAGE	ACTIVE
System Standard-E-Mail zur Bestätigung (de)	Confirm email address	German	Active
System Default Confirm Email (en)	Confirm email address	English	Active
System Default Confirm Email (es)	Confirm email address	Spanish	Active
System Default Confirm Email (sv)	Confirm email address	Swedish	Active
System Standard-Einladungs-E-Mail (de)	Invite user	German	Active
System Default Invite Email (en)	Invite user	English	Active
System Default Invite Email (es)	Invite user	Spanish	Active
System Default Invite Email (sv)	Invite user	Swedish	Active
System Default New Batch Email (de)	New batch	German	Active
System Default New Batch Email (en)	New batch	English	Active
System Default New Batch Email (es)	New batch	Spanish	Active
System Default New Batch Email (sv)	New batch	Swedish	Active
System Standard-E-Mail zum Zurücksetzen des Passworts (de)	Reset password	German	Active
System Default Password Reset Email (en)	Reset password	English	Active
System Default Password Reset Email (es)	Reset password	Spanish	Active

TOTAL TEMPLATES: 20

9. 9. 1. Send test email

- To send a test email , click on the "Send test email " button.

NAME	TYPE	LANGUAGE	ACTIVE
System Standard-E-Mail zur Bestätigung (de)	Confirm email address	German	Active
System Default Confirm Email (en)	Confirm email address	English	Active
System Default Confirm Email (es)	Confirm email address	Spanish	Active

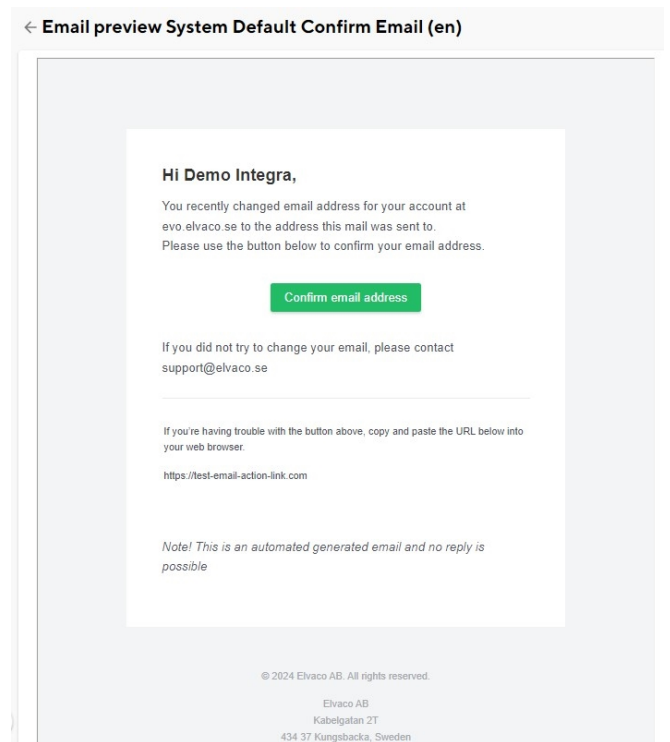
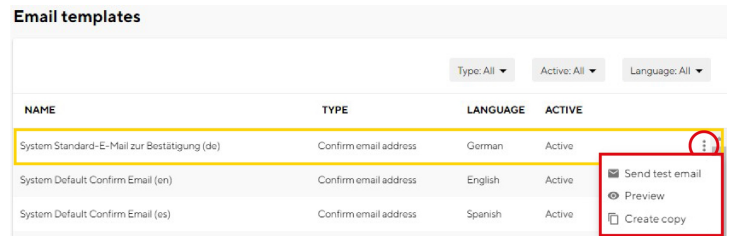


- Enter the email address of the beneficiary.
- Click on the "Confirm" button.



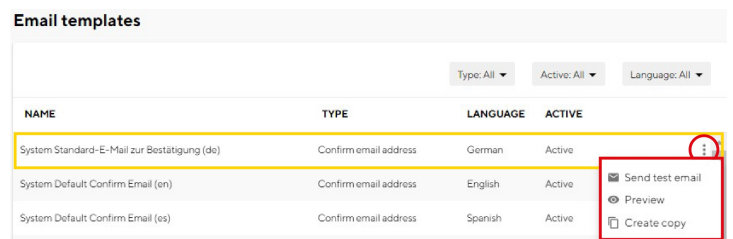
9. 9. 2. Preview an email

- To preview your email , click on the "Preview" button.



9. 9. 3. Create a copy

- To create a copy of your email , click on the "Create copy" button.



- You'll find your email template copied below the original.
It automatically appears "Inactive".

Email templates

Type: All Active: All Language: All

NAME	TYPE	LANGUAGE	ACTIVE
System Standard-E-Mail zur Bestätigung (de)	Confirm email address	German	Active
System Default Confirm Email (en)	Confirm email address	English	Active
COPY OF System Default Confirm Email (en)	Confirm email address	English	Inactive

9. 9. 4. Activate an email template

The email template automatically appears as "Inactive".

- Click on the three dots to display the options.
- Click on the "Activate" button. The email template now appears as "Activate".

Email templates

Type: All Active: All Language: All

NAME	TYPE	LANGUAGE	ACTIVE
System Standard-E-Mail zur Bestätigung (de)	Confirm email address	German	Active
System Default Confirm Email (en)	Confirm email address	English	Active
COPY OF System Default Confirm Email (en)	Confirm email address	English	Inactive
System Default Confirm Email (es)	Confirm email address	Spanish	Active
System Default Confirm Email (sv)	Confirm email address	Swedish	Active
System Standard-Einladungs-E-Mail (de)	Invite user	German	Active
System Default Invite Email (en)	Invite user	English	Active

- Send test email
- Preview
- Activate
- Edit template
- Create copy
- Delete template

9. 9. 5. Edit an email template

- Click on the three dots to display the options.
- Click on the "Edit template" button.

Email templates

Type: All Active: All Language: All

NAME	TYPE	LANGUAGE	ACTIVE
System Standard-E-Mail zur Bestätigung (de)	Confirm email address	German	Active
System Default Confirm Email (en)	Confirm email address	English	Active
COPY OF System Default Confirm Email (en)	Confirm email address	English	Inactive
System Default Confirm Email (es)	Confirm email address	Spanish	Active
System Default Confirm Email (sv)	Confirm email address	Swedish	Active
System Standard-Einladungs-E-Mail (de)	Invite user	German	Active
System Default Invite Email (en)	Invite user	English	Active

- Send test email
- Preview
- Activate
- Edit template
- Create copy
- Delete template

- Modify the main information.
- Write your email template.
- Click on the "Save" button.

Name
COPY OF System Default Confirm Email (en)

Email type: Confirm email address

Language
English

Subject
[evo] Confirm email address

Hi {{user_name}},

You recently changed email address for your account at evo.elvaco.se to the address this mail was sent to. Please use the button below to confirm your email address.

Confirm email address

If you did not try to change your email, please contact support@elvaco.se

If you're having trouble with the button above, copy and paste the URL below into your web browser:
{{action_link}}

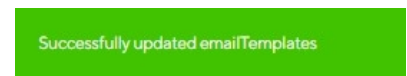
Note! This is an automated generated email and no reply is possible

© {{data_year}} Elvaco AB. All rights reserved.
Elvaco AB
Kabelgatan 2T
434 37 Kungälv, Sweden

POWERED BY TINYMCE

SAVE

After saving, a confirmation message appears.



9. 9. 6. Delete an email template

- Click on the three dots to display the options.
- Click on the "Delete template" button.

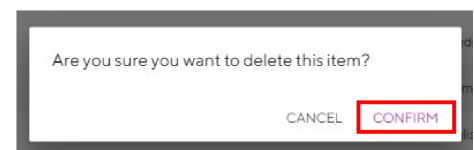
Email templates

Type: All Active: All Language: All

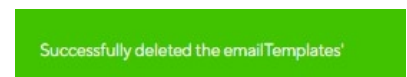
NAME	TYPE	LANGUAGE	ACTIVE	
System Standard-E-Mail zur Bestätigung (de)	Confirm email address	German	Active	⋮
System Default Confirm Email (en)	Confirm email address	English	Active	⋮
COPY OF System Default Confirm Email (en)	Confirm email address	English	Inactive	⋮
System Default Confirm Email (es)	Confirm email address	Spanish	Active	⋮
System Default Confirm Email (sv)	Confirm email address	Swedish	Active	⋮
System Standard-Einladungs-E-Mail (de)	Invite user	German	Active	⋮
System Default Invite Email (en)	Invite user	English	Active	⋮

- Send test email
- Preview
- Activate
- Edit template
- Create copy
- Delete template

- Click on the "Confirm" button.

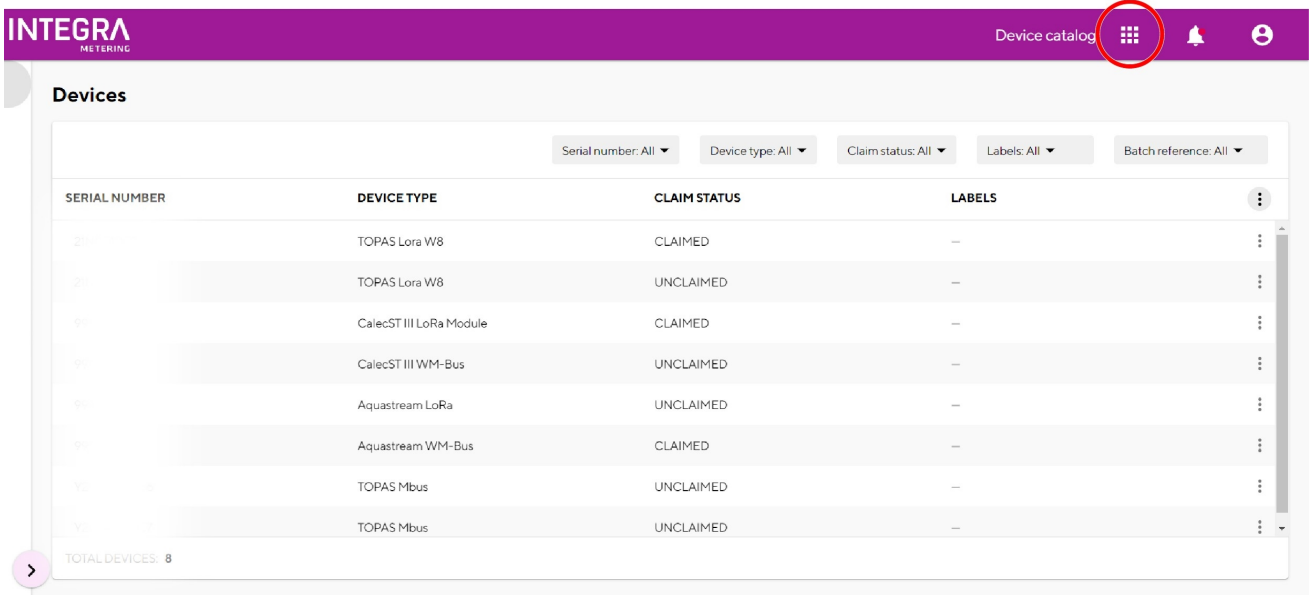


After saving, a confirmation message appears.

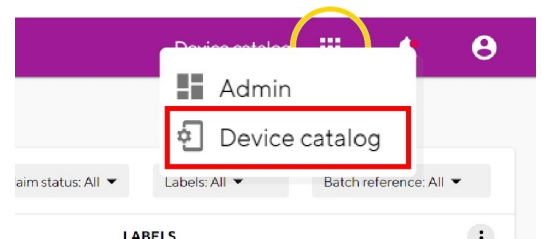


10. Device catalog menu

- To access the "Device catalog" menu, go to the home page and click on the following button.

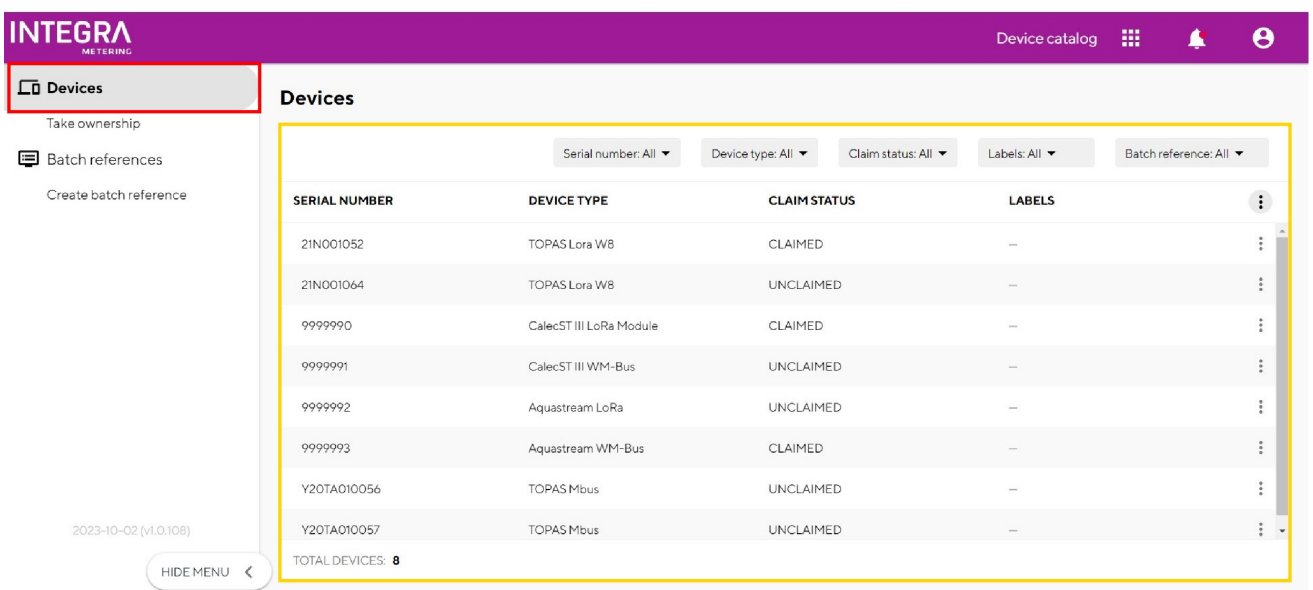


- Click on the "Device catalog" button



10. 1. Devices

On this page you will find a list of all your meters/ modules.



Information on your meters/ modules is also available: serial number, device type, claim status, label, batch reference.



Devices

Serial number: All | Device type: All | Claim status: All | Labels: All | Batch reference: All

SERIAL NUMBER	DEVICE TYPE	CLAIM STATUS	LABELS	
21N001052	TOPAS Lora W8	CLAIMED	–	⋮
21N001064	TOPAS Lora W8	UNCLAIMED	–	⋮

10. 2. Search filters

- Click on the drop-down message of your choice in the filter bar.
- Select a proposal or search manually by clicking on the search bar and enter the specific information you wish to filter.

The screenshot shows the IntegrA Metering interface with a sidebar on the left containing 'Devices', 'Batch references', and 'Create batch reference'. The main area displays a table of devices with filter buttons at the top: 'Serial number: All', 'Device type: All', 'Claim status: All', 'Labels: All', and 'Batch reference: All'. A search bar is highlighted with a red box, and a dropdown menu is open, listing various serial numbers with checkboxes next to them. The table below shows columns for SERIAL NUMBER, DEVICE TYPE, CLAIM STATUS, and LABELS.

SERIAL NUMBER	DEVICE TYPE	CLAIM STATUS	LABELS	
21N001052		CLAIMED	–	⋮
21N001064		UNCLAIMED	–	⋮
9999990		CLAIMED	–	⋮
9999991		UNCLAIMED	–	⋮
9999992		UNCLAIMED	–	⋮
9999993		CLAIMED	–	⋮
Y20TA010056		UNCLAIMED	–	⋮
Y20TA010057	TOPAS Mbus	UNCLAIMED	–	⋮

TOTAL DEVICES: 8

10. 3. Claim devices

The CLAIM STATUS of your meter / module is visible on your page.

Devices

Serial number: All | Device type: All | Claim status: All | Labels: All | Batch reference: All

SERIAL NUMBER	DEVICE TYPE	CLAIM STATUS	LABELS	
21N001052	TOPAS Lora W8	CLAIMED	–	⋮
21N001064	TOPAS Lora W8	UNCLAIMED	–	⋮

You can make a CLAIM DEVICE request.

Once you have found the desired meter / module using the search filter, click on the three dots.

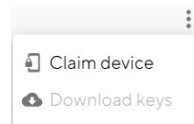


Devices

Serial number: All | Device type: All | Claim status: All | Labels: All | Batch reference: All

SERIAL NUMBER	DEVICE TYPE	CLAIM STATUS	LABELS	
21N001052	TOPAS Lora W8	CLAIMED	-	⋮
21N001064	TOPAS Lora W8	UNCLAIMED	-	⋮

Click on the "Claim device" Button.



10. 4. Download key

10. 4. 1. Download an individual key

Once you have found the desired meter/ module using the search filter, click on the three dots.

Devices

Serial number: All | Device type: All | Claim status: All | Labels: All | Batch reference: All

SERIAL NUMBER	DEVICE TYPE	CLAIM STATUS	LABELS	
21N001052	TOPAS Lora W8	CLAIMED	-	⋮
21N001064	TOPAS Lora W8	UNCLAIMED	-	⋮

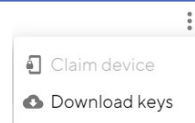
NOTICE



Notice

You cannot download a meter/ module key with Claim status "UNCLAIMED".

Click on the "Download keys" Button.



10. 4. 2. Download all your keys

Click on the three dots and choose "Download keys".
Then check your download list.



Devices

Serial number: All | Device type: All | Claim status: All | Labels: All | Batch reference: All

SERIAL NUMBER	DEVICE TYPE	CLAIM STATUS	LABELS
21N001052	TOPAS Lora W8	CLAIMED	<ul style="list-style-type: none"> Claim devices Download keys + Create batch from current selection
21N001064	TOPAS Lora W8	UNCLAIMED	

NOTICE

Notice

You cannot download a meter / module key with Claim status "UNCLAIMED".

10. 5. Take ownership

NOTICE

Notice

Advanced function
Not available to all users, depending on your access rights.

- To gain access, contact the administrator, who will issue your authorisation.

- Click on the "Take ownership" button.

Take ownership

Batch reference

Label

SAVE

- Complete the information.
- Once you have completed the information, click on the "Save" button.

Take ownership

Batch reference

Label

SAVE



10. 6. Batch reference visualisation

NOTICE



Notice

Advanced function

Not available to all users, depending on your access rights.

- To gain access, contact the administrator, who will issue your authorisation.

On this page, you will find a list of your batch references.

Filters to narrow your search in the batch reference list are available.

SERIAL NUMBER	DEVICE TYPE	CLAIM STATUS	LABELS
21N001052	TOPAS Lora W8	CLAIMED	—
21N001064	TOPAS Lora W8	UNCLAIMED	—
9999990	CalecST III LoRa Module	CLAIMED	—
9999991	CalecST III WM-Bus	UNCLAIMED	—
9999992	Aquastream LoRa	UNCLAIMED	—
9999993	Aquastream WM-Bus	CLAIMED	—
Y20TA010056	TOPAS Mbus	UNCLAIMED	—
Y20TA010057	TOPAS Mbus	UNCLAIMED	—

TOTAL DEVICES: 8

10. 7. Create a batch reference

NOTICE



Notice

Advanced function

Not available to all users, depending on your access rights.

- To gain access, contact the administrator, who will issue your authorisation.

- Click on the " Create batch reference " / "+" button.



- Complete the information.
- Click on the "Choose file" button to select files.
- A window opens, search and select the files you want.
 - Compatible files are *.txt ; *.csv.
 - Comma separated device serial numbers from file.
- Choose your organisation, you have the selection bar to facilitate your navigation.
- Once you have completed the information, click on the "Save" button.

Create batch reference

Batch reference

Comma separated device serial numbers ADD DEVICE

CHOOSE FILE Comma separated device serial numbers from file (.txt, .csv)

Ownership request needs confirmation

Label

Organisation: ▼

SAVE

SERIAL NUMBER

0

