

User Guide

Aranet Cloud

<https://aranet.cloud/>

VER 0.7

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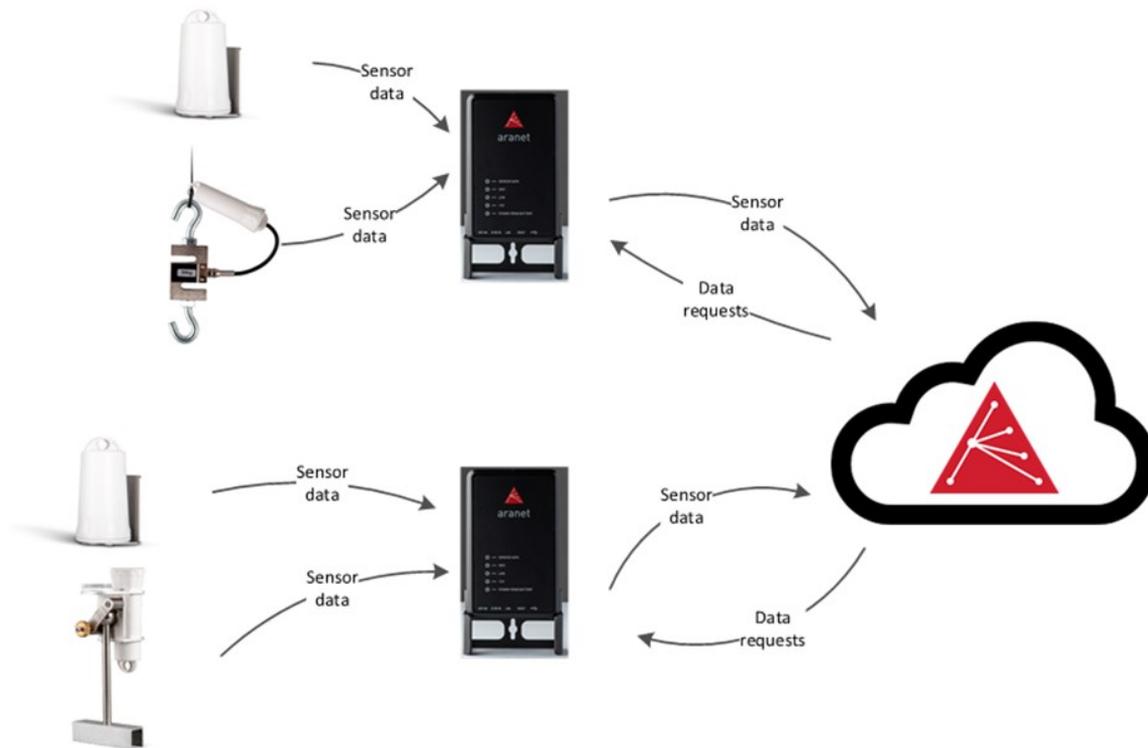
Overview

Aranet is a smart wireless monitoring IoT solution that collects, records, reports, and analyzes data from distributed sensor networks. Basic Aranet implementation consists of:

- 1) at least one PRO base station that gathers data and
- 2) sensors that connect to a base station and make a local wireless data network.

Data from Aranet sensors can be accessed and viewed

- 1) connecting locally to a PRO base station IP address with any WEB browser;
- 2) in the Aranet Cloud platform when the PRO base station is connected to the Internet. Aranet Cloud is accessible from any place on the globe where an Internet connection is available.



Aranet Cloud is an industrial-grade solution for the Aranet IoT ecosystems' remote management. Aranet Cloud can connect an unlimited number of Aranet PRO Bases and store measurements from all of the sensors in one environment.

Aranet Cloud platform provides a WEB interface where any person can register a new user account and then using specified authentication details (e-mail and password) user can log in and access his account on the platform. Registered users can further connect/register an unlimited amount of Aranet PRO base stations which sensor data then will be accessible on the Aranet Cloud platform.

Aranet Cloud receives data from Pro base stations using HTTPS protocol on TCP port 443. The data transmission is designed so that the system configuration is as simple as possible without the need for any specific network configuration. Just connect the Aranet PRO base station to the internet and start using Aranet Cloud.

Aranet Cloud platform allows viewing live and historic measurement data from all the sensors which are paired to Cloud registered PRO base stations. Additionally, in the Aranet Cloud platform any user can also:

- 1) share sensor data with other users of the Aranet Cloud platform by sending an invitation;
- 2) send sensor data in SenML+JSON file format via push-type integration API to any 3rd party system endpoint (server, computer, another Cloud platform, etc.) capable of receiving such files
- 3) export measurement data to .csv file

Note that data from sensors cannot be directly sent to Aranet Cloud. Sensors can only be paired with Aranet PRO base stations which gather sensor data and communicate with Aranet Cloud (with an Internet connection and the proper Cloud registration).

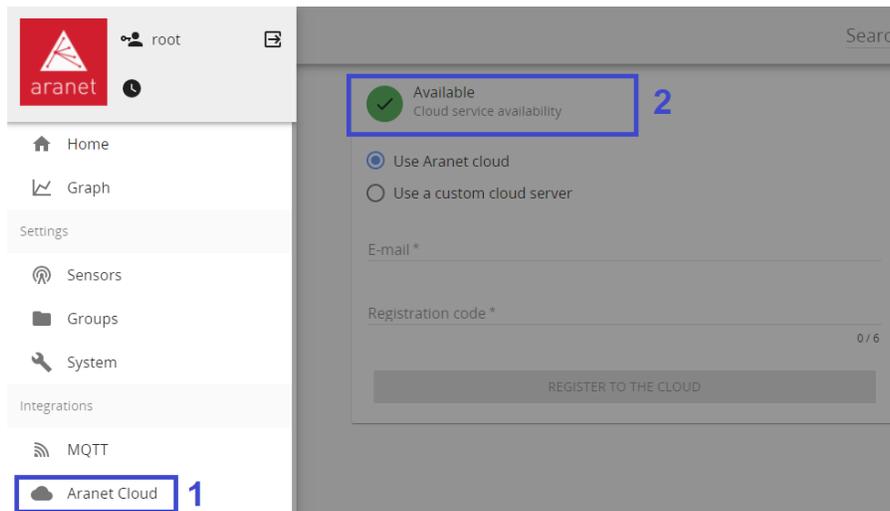
Aranet Cloud server infrastructure is hosted in a secure data center managed by SAF Tehnika. This infrastructure is built to avoid any single point of failure and is supported with full redundancy by having two independent internet connections, two firewall units, two network core switches, etc.

Note that Aranet4 HOME, Aranet MINI base station and Aranet-agent products are not compatible and cannot be used with the Aranet Cloud platform.

1. Prerequisites for base station registration

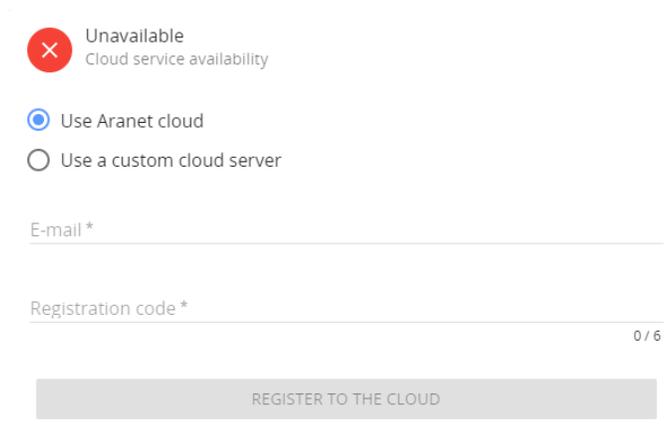
Before setting up an Aranet PRO base station on the Aranet Cloud platform a couple of things should be verified and provided:

1. User has any type of device with a working Internet connection and WEB browser installed on it ;
2. User has access to an e-mail account that can be used for new account registration in the Aranet Cloud platform;
3. User has access via a WEB graphical interface to an Aranet PRO base station that he wants to register/connect in the Aranet Cloud platform;
4. The same Aranet PRO base station is properly connected to the Internet and has at least firmware version 2.4.6. If the Aranet PRO base station can access the Aranet Cloud platform it will have section **Aranet Cloud** from the main menu of the WEB graphical user interface that will show the message that *Cloud service* is *Available*.



If the Aranet PRO base station is missing **Aranet Cloud** section, update to the newest firmware version from the official Aranet web page Downloads subsection *Firmware updates*: <https://aranet.com/downloads/>

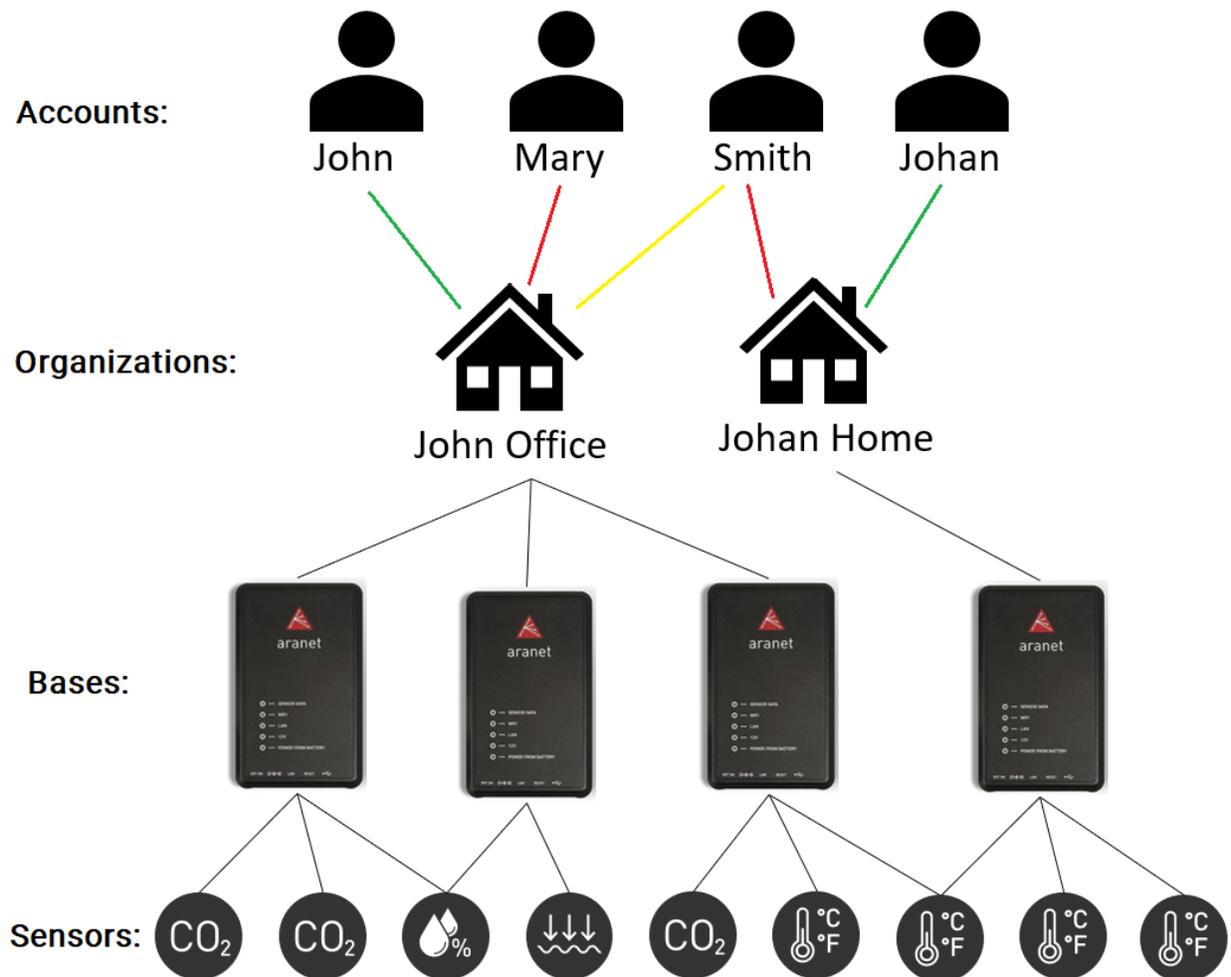
If the Aranet PRO base station shows **Unavailable** then recheck your Internet connection.



2. Logical entities of Cloud structure

To understand the Aranet Cloud WEB interface we start with the primary entities and objects which form the Aranet Cloud structure:

- 1) Accounts;
- 2) Organizations;
- 3) Bases;
- 4) Sensors.



Bases and Sensors are self-explanatory entities by their name which accordingly represent Aranet PRO base stations and the sensors that are paired to them.

Account entities are registered user accounts in the Aranet Cloud platform. User accounts have their own private space on the Aranet Cloud platform. To access data a user account needs to create or join entities called Organizations.

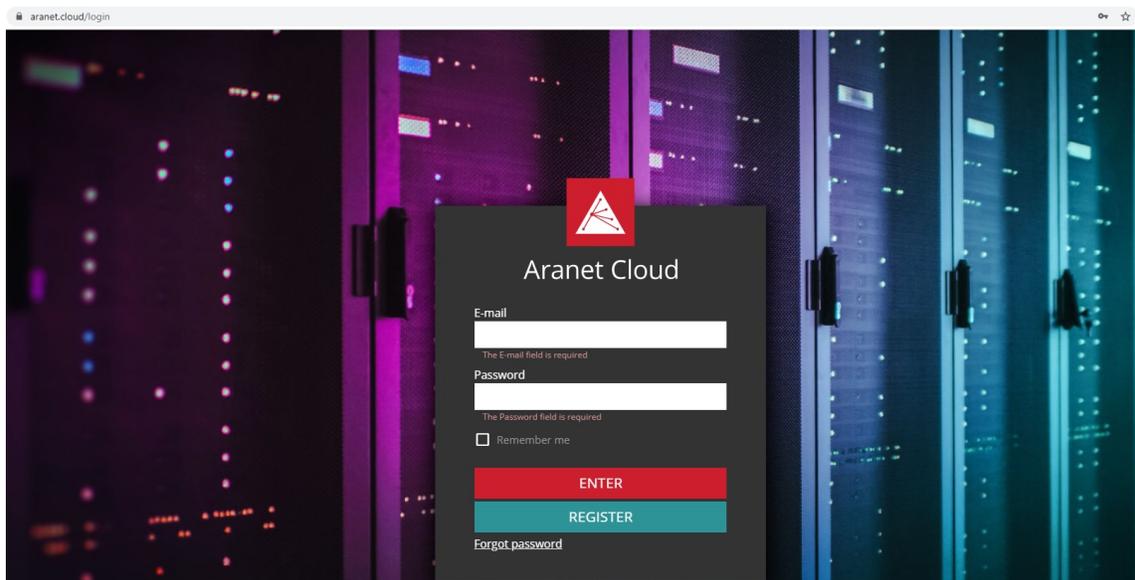
Organization entities are like an intermediary medium that is utilized by Accounts to gather, see and visualize data from Bases and can easily share data with other Aranet Cloud Accounts or 3rd party systems. Each Account can have one of 3 different roles in each Organization: Owner, Administrator or User:

- 1) Owner - each Organization is created by an Account which then is assigned the Owner role in the Organization (depicted with **green arrows** in the figure above). The owner has full control over created Organization settings and data – so-called write rights for all the sections of the Organization. Each Organization has only one Owner who can change all the settings on the Organization and see all data available on it. The owner can add or remove other Accounts to the Organization, change their roles and view (read) or modify (write) rights in the Organization, but other Accounts in the Organization can't change the Owner's rights or remove the Owner from the Organization. The owner can add (register) new Bases to the Organization and share sensor data from such Bases with other Accounts on the Aranet Cloud system or some 3rd party systems;
- 2) Administrator – Account with the same rights as Owner in the Organization except the Administrator can't change the rights or role of the Owner. Each Organization can have an unlimited number of Administrators (depicted with **red arrows** in the figure above);
- 3) User – Account which can have just individual viewing and/or modifying rights in different sections available in each Organization (depicted with **yellow arrows** in the figure above). User accounts can be configured so that they can just view data in the organization, but can't modify any of its' settings.

Owners, Administrators, and even Users if they have writing rights can register Bases to Organizations. When the Base is registered to an Organization it will send all its Sensor measurement data to the Organization. Each Base can only be registered to one Organization at a time (an unlimited number of Bases can be registered to the same Organization).

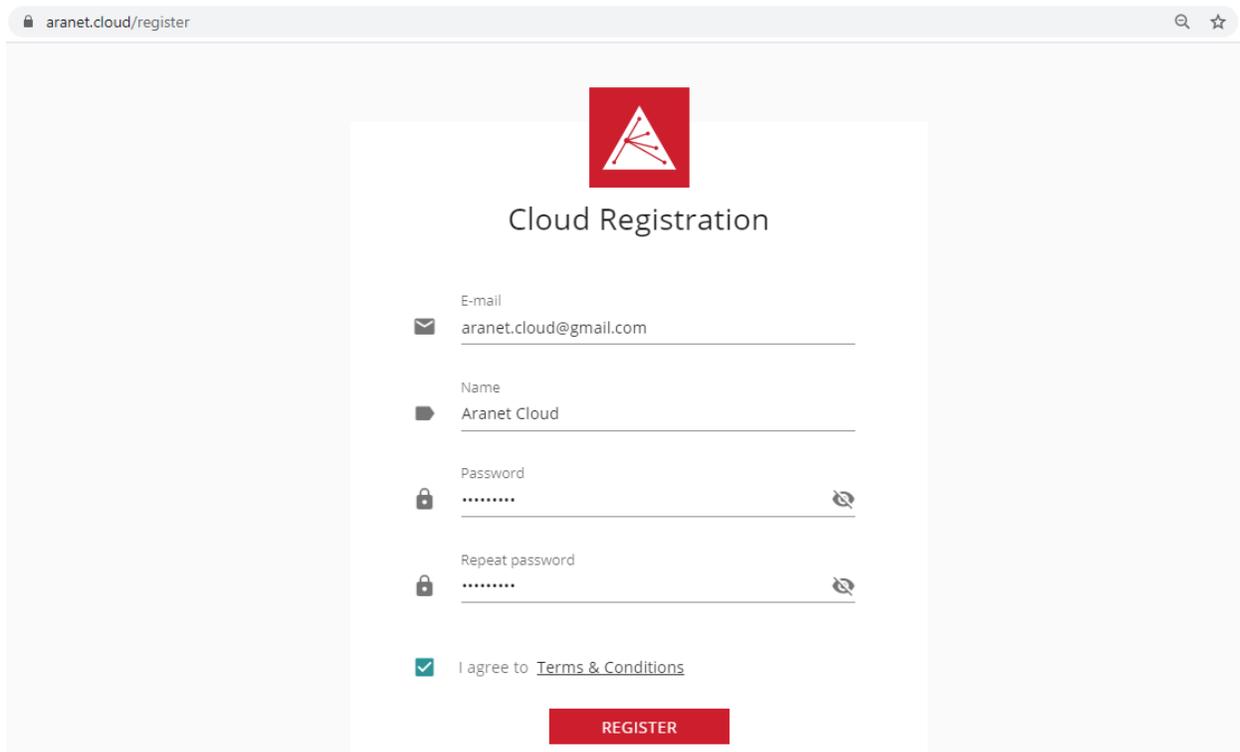
3. Accessing Cloud WEB GUI

Aranet Cloud platform can be accessed with any WEB browser by entering <https://aranet.cloud/>:



4. User account registration

To access and use the Aranet Cloud platform the user first has to register a new account in the platform. A new user account can be created by pressing the **REGISTER** button on the main login page of the platform:



aranet.cloud/register

Cloud Registration

E-mail
aranet.cloud@gmail.com

Name
Aranet Cloud

Password
.....

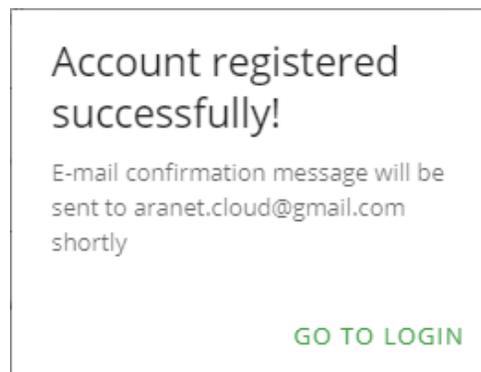
Repeat password
.....

I agree to [Terms & Conditions](#)

REGISTER

- 1) **E-mail** - e-mail account, that will be used for user account acknowledgment and afterward will serve as login data to access the Aranet Cloud system;
- 2) **Name** - will be used as user account profile name;
- 3) **Password** - will serve as login data to access the Aranet Cloud system;
- 4) **Repeat Password** - password confirmation field;
- 5) **I agree to Terms and Conditions** - click to accept SAF Tehnika terms and conditions on Aranet Cloud usage: <https://aranet.cloud/terms-and-conditions>

When all the necessary data is entered click **REGISTER** - a pop-up message about successful account registration will appear:



After successful registration the new Cloud account needs to be acknowledged and the user has to go to his previously entered e-mail account where he should have a new e-mail message with the subject **Confirmation of your Aranet Cloud registration** from noreply@aranet.cloud. If such a message is not delivered, then first check Your e-mail spam/junk filter and all other possible folders. If the message is still not found, then contact Aranet technical support for assistance support@aranet.com.

Cloud registration confirmation message should be opened and new user account registration should be completed by pressing on **CONFIRM EMAIL ADDRESS** link in the message:

Confirmation of your Aranet Cloud registration
noreply@aranet.cloud



Welcome to
ARANET CLOUD

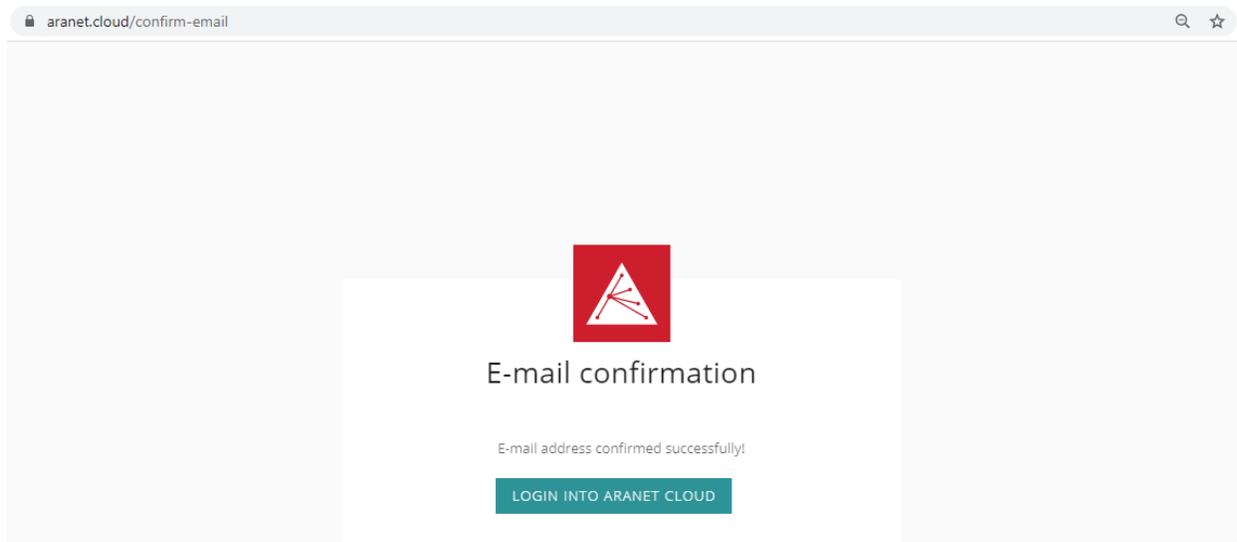
You have successfully created an ARANET CLOUD account. Please confirm your email address by clicking the button below

CONFIRM EMAIL ADDRESS

If you have problems accessing your ARANET CLOUD account, contact us at support@aranet.com

You are receiving this email because you have registered an account at ARANET CLOUD (<https://aranet.cloud>)
You can view ARANET CLOUD Terms & Conditions at [Terms & Conditions](#)

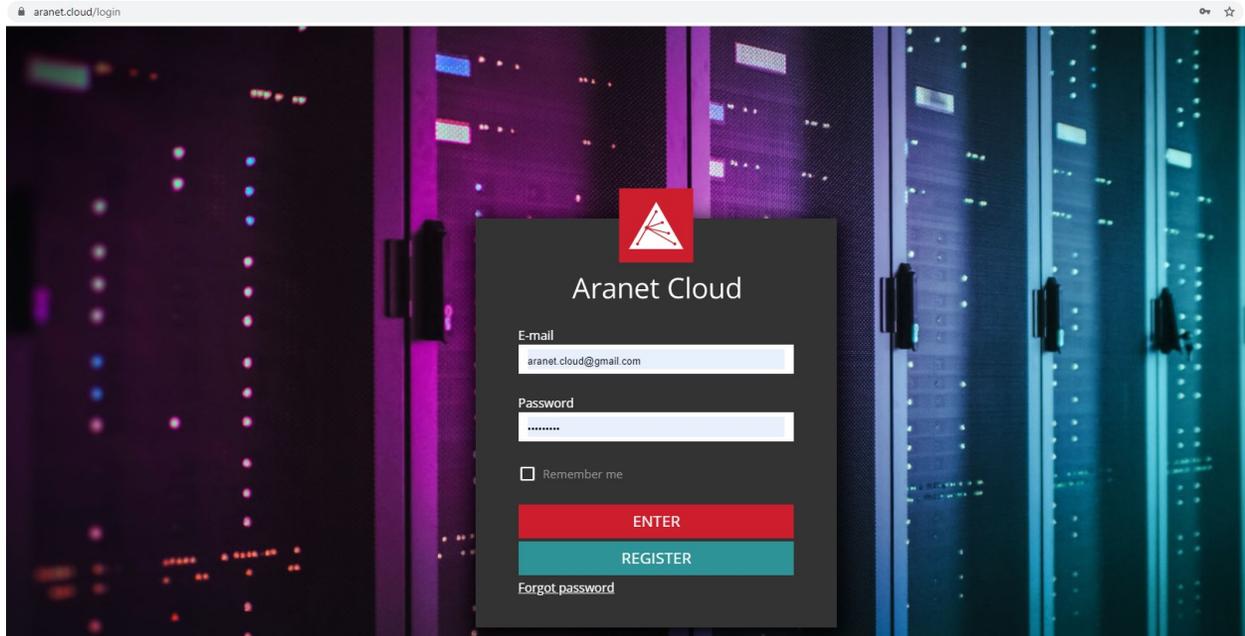
Pressing on **CONFIRM EMAIL ADDRESS** link will open a new WEB page with a success message about e-mail address confirmation which also finalizes the new Aranet Cloud user account registration process:



Pressing on the **LOGIN INTO ARANET CLOUD** button will open the main Aranet Cloud platform login page <https://aranet.cloud/login>.

5.Login to Cloud

After account creation user needs to enter his previously selected e-mail address and password and then press **ENTER** button in Aranet Cloud main login page to access his account in the platform:



Additionally, **Remember me** checkbox can be selected to save user account login details in the used WEB browser settings for future ease of use.

Forgot password should be pressed if the password has been forgotten. Such operation will open **Reset password** page where a user needs to enter the e-mail address for the account with the forgotten password and the Aranet Cloud system then will send an e-mail message with a temporary link for a new password entering for the requested Aranet Cloud user account.



Reset password

E-mail

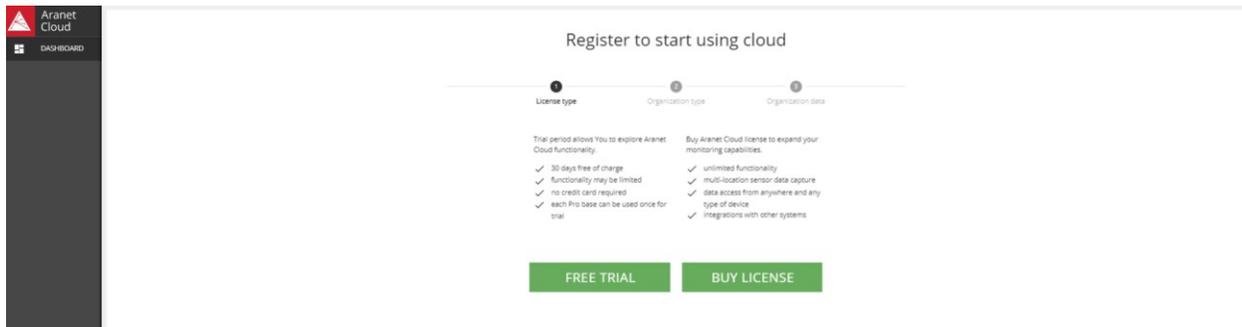


RESET MY PASSWORD

6. New organization creation

To see sensor data from Aranet PRO base stations and use other Aranet Cloud services a registered user has to be affiliated with an Aranet Cloud organization. After the initial log in the user is prompted to create a new organization. This process is divided into 3 steps where the user needs to:

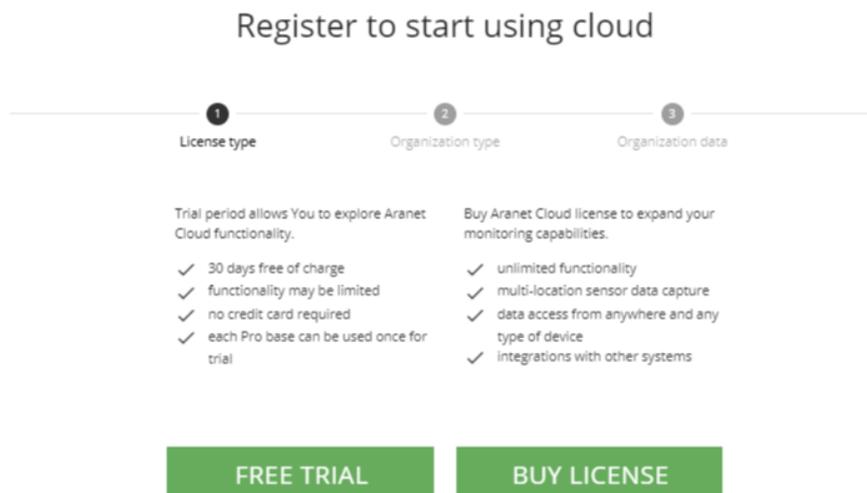
- 1) select **License type** that will be used for the new organization;
- 2) in **Organization type** select what kind of legal entity will be responsible for payment of invoices for purchased operational licenses of the new organization;
- 3) enter **Organization** contacts/payer/billing **data**.



License type

As Aranet Cloud services can be accessed only with time-limited licenses, the user first has to select the type of license that will be used for the new organization:

- 1) **FREE TRIAL** – the trial license will be applied to the new organization which will allow using it with full Aranet Cloud functionality free of charge for 30 days. Note that if an Aranet PRO base station had been previously registered to an organization with a free trial license, then it will not be possible to register it again to a second organization with a free trial license;
- 2) **BUY LICENSE** – should be selected when the user wants to buy an Aranet Cloud license immediately. At this step, just the type of the license is selected, but the actual purchase order for the license will be created later in the process:



Organization type

In this step, the user needs to select the type of legal entity that will represent the new organization and in case of license purchase, will pay the issued invoices. There are 2 options:

- 1) **PRIVATE USE** – when a private (natural/physical) person will represent the new organization and pay its' invoices;
- 2) **COMPANY USE** – when a company will represent the new organization and pay its' invoices.

Register to start using cloud

1 License type 2 Organization type 3 Organization data

Depending on the choice made below, the invoice payer details will be adjusted, as well as the VAT rate will be applied accordingly.

PRIVATE USE **COMPANY USE**

Organization data

In this step, the user needs to enter contact details for the legal entity which will represent the new organization. In case the Aranet Cloud license is purchased, then this data will be used to autofill billing address details in the order invoice. The appearance of **Organization data** page will slightly differ depending on the organization type selected previously. If **PRIVATE USE** was selected in the previous step, then **First name** and **Last name** fields will be shown and must be filled. If **COMPANY USE** was selected in the previous step, then **Company name** and optionally **VAT number** (if the company has it) fields will be shown and should be filled:

Register to start using cloud

1 License type 2 Organization type 3 Organization data

Country: Latvia

Company name: Aranet or First name: Private

VAT number (Optional): LV77777 Last name: Person

Email: billing@aranet.com

Code: +371 Phone number (Optional): 777777

Street: Aranet street 777

City: Aranetown

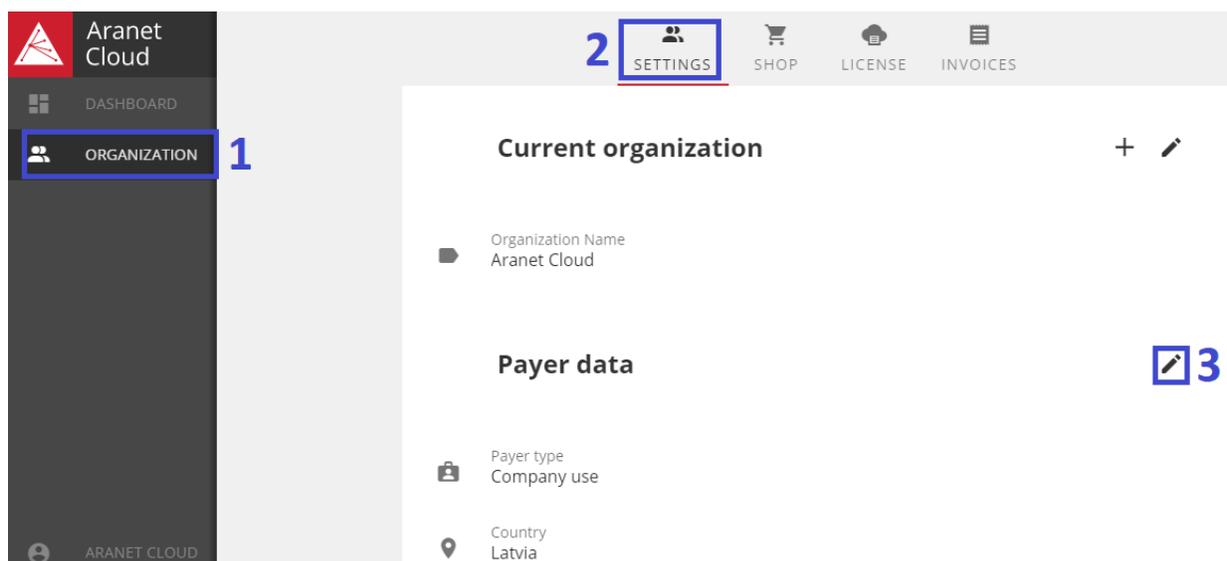
Postal code: A-777

CREATE ORGANIZATION

When all Organization data page mandatory fields are filled, then **CREATE ORGANIZATION** button can be pressed. Such an operation will create a new Cloud organization with the **Name** which was entered in **Company Name** or **First name** field. The user who created the new organization will have the **Owner** role with unlimited permission level (viewing and editing rights) in the organization.

Note that during the new organization creation process user can go back to the previous 2 steps by clicking on  icon of the required step and change his selection in these steps. If the organization has been already created by pressing the **CREATE ORGANIZATION** button, then it will not be possible to make changes to **License type** and **Organization type**. Still, it will be possible to change the Organization contacts/billing data by going to the section **ORGANIZATION** tab **SETTINGS** and clicking on the Edit icon

 in the **Payer data** subsection:



If the user has selected the **FREE TRIAL** license type during the new organization creation process, the license purchase step is skipped and the user can proceed with the Aranet PRO base station registration by clicking the **REGISTER** button (see further chapter **BASE STATION REGISTRATION**).

Register new Aranet PRO base



Note - if an Aranet PRO base station had been previously registered to an organization with a free trial license, then it will not be possible to register it again to a second organization with a free trial license.

If the user has selected a FREE TRIAL license, it is possible at any time to update the organization license by purchasing a time-based operational license (see chapter

PURCHASE OF license)

7. Purchase of license

If the user has selected to **BUY LICENSE** in the initial new organization creation process the user will be prompted to go to the Aranet Cloud **SHOP** section and purchase a suitable time-based license.

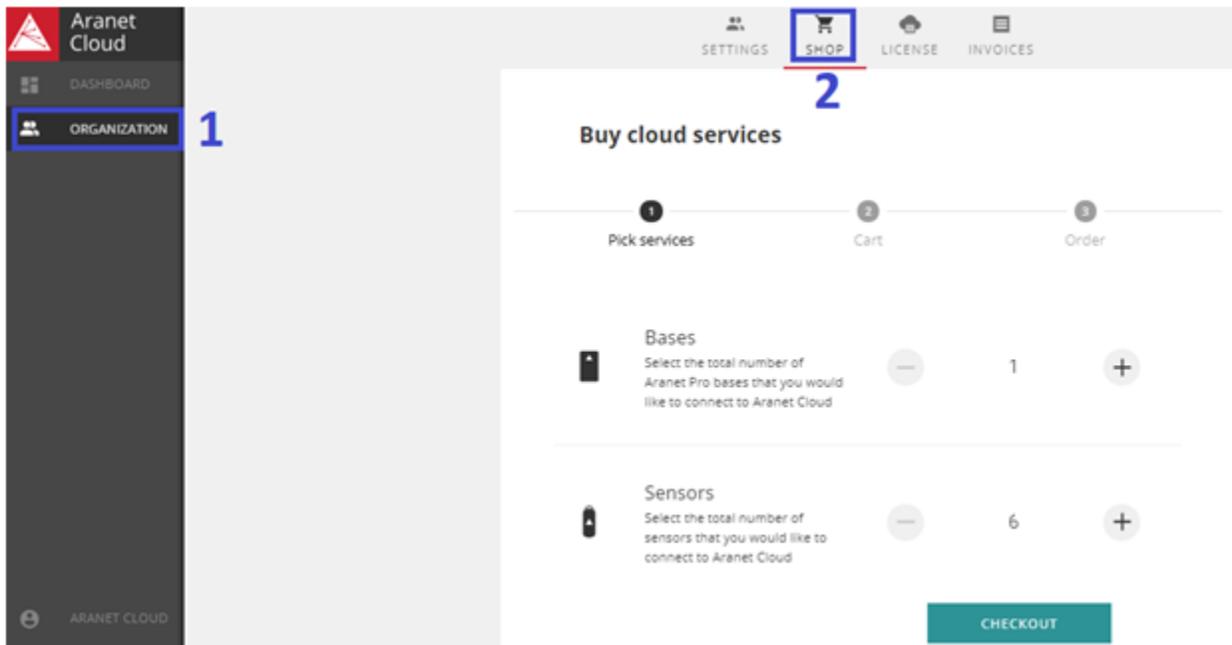
To start using **Aranet Cloud**,
please purchase license!

GO TO SHOP

Note the license applies to the entire organization. An unlimited number of Aranet Cloud user accounts can be invited to join the organization and see sensor data from Aranet PRO bases registered to the organization.

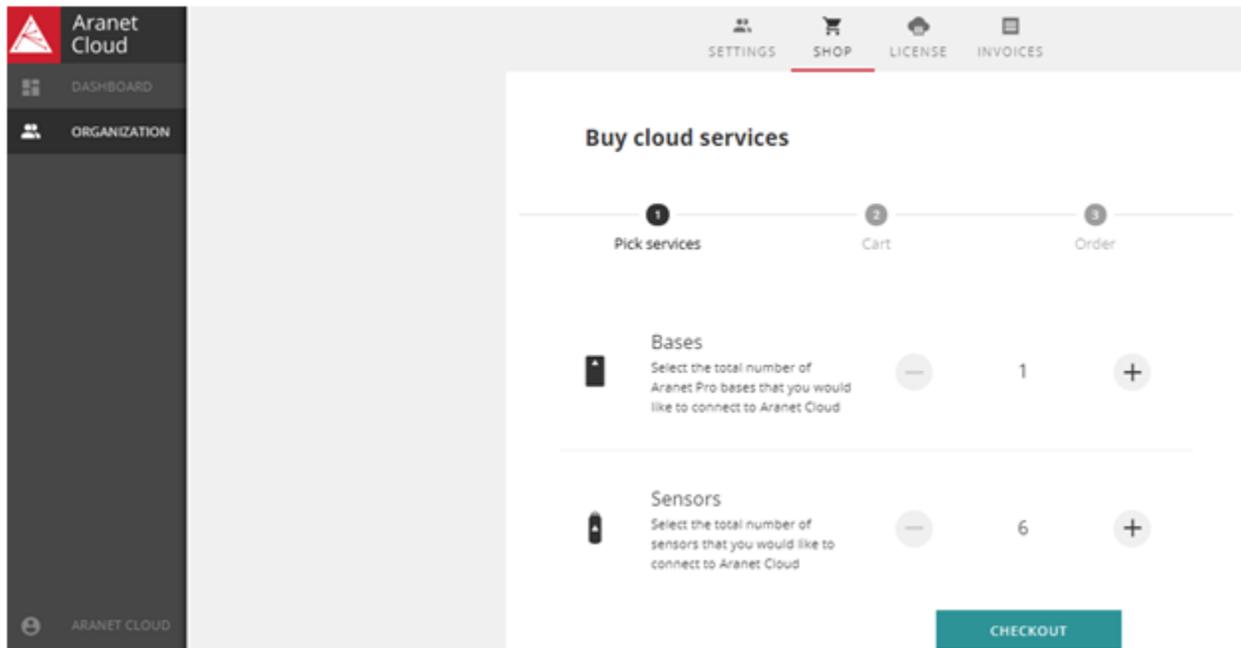
For license purchase user can go to the Aranet Cloud **SHOP** section either:

- 1) from **DASHBOARD** section clicking on **GO TO SHOP** button or
- 2) clicking on **ORGANIZATION** section from the main menu left side panel and then selecting **SHOP** tab:



The license purchase process consists of 3 steps:

Pick services



Here the user selects the number of Aranet PRO **Bases** and paired **Sensors** to add to the Aranet Cloud organization.

The addition of **Bases** is done by clicking on “+” or “-” icon which will adjust the base number by one (an appropriate number of bases should be selected as Aranet Cloud will not allow registering more base stations than are available by license).

Note that **Sensor** packs purchased should match the maximum number of sensors that will be paired to all of the **Bases** registered for an organization (20,000 **Sensors** max).

If a new Aranet PRO base registration is denied due to exceeding the limit of licensed base or sensor number, then it will be necessary first to update the Aranet Cloud license.

Cart

This page shows what Aranet Cloud services will be purchased with the license order, their price breakdown and how the final invoice will look like.

On this page user can:

Buy cloud services



License

Month till
 Year till 10% DISCOUNT

1

Bill to:
Aranet
LV40003474109 ✓
Aranet street 777, Aranetown, LV-777, Latvia
+371 777777

2

Aranet services	Price	Quantity	Total
Aranet Cloud service for PRO base station /365 days	108.00 EUR	x 1	108.00 EUR
Aranet Cloud 100 sensors pack /365 days	120.00 EUR	x 1	120.00 EUR
	Subtotal		228.00 EUR
	Volume discount at 10%		22.80 EUR
	VAT charged at 21%		43.09 EUR

3

Pay with : CARD PAYMENT BANK TRANSFER Currency : EUR USD

5

TOTAL

4

248.29 EUR

Agree to receive recurring orders

6

PLACE ORDER

- 1) choose the time (1 *Month* or 1 *Year*) for the license operation by clicking on the appropriate radio button. The end date of the license will be shown next to the selection;
- 2) see and change *Bill to* details for the payer of the license purchase order invoice. These details were filled during the new organization creation process and visible also in section ORGANIZATION tab SETTINGS subsection Payer data. Clicking on the edit icon  will open the window where the Payer data of the organization can be modified and saved by pressing on icon . Saved changes will not only modify the billing details for the invoice under creation in the **Cart** page, but will change also Payer data in general organization settings.
- 3) see the *Aranet* Cloud licensed *services* that will be purchased in the order and a summary of the pricing. All prices below are given without VAT.

License type	Monthly price, EUR	Yearly price, EUR	Yearly price with 10% discount, EUR
One ARANET PRO base station connection to CLOUD with up to 6 sensors (STARTER KIT)	6.00 €	72.00 €	64.80 €
ARANET PRO base station with CLOUD connection	9.00 €	108.00 €	97.20 €
12 sensor pack	4.00 €	48.00 €	43.20 €
50 sensor pack	6.00 €	72.00 €	64.80 €
100 sensor pack	10.00 €	120.00 €	108.00 €
1 000 sensor pack	90.00 €	1080.00 €	972.00 €
10 000 sensor pack	800.00 €	9600.00 €	8640.00 €

Table 7-1 License prices in EUR

License type	Monthly price, USD	Yearly price, USD	Yearly price with 10% discount, USD
One ARANET PRO base station connection to CLOUD with up to 6 sensors (STARTER KIT)	\$6.90	\$82.80	\$74.52
ARANET PRO base stations with CLOUD connection	\$10.35	\$124.20	\$111.78
12 sensor pack	\$4.60	\$55.20	\$49.68
50 sensor pack	\$6.90	\$82.80	\$74.52
100 sensor pack	\$11.50	\$138.00	\$124.20
1 000 sensor pack	\$103.50	\$1242.00	\$1117.80
10 000 sensor pack	\$920.00	\$11040.00	\$9936.00

- 4) user can choose how to pay for the purchase of Aranet Cloud license: with **CARD PAYMENT** or **BANK TRANSFER**;
- 5) user can also choose *Currency* type (click on EUR icon for euros or USD icon for US dollars) for the license purchase order invoice;
- 6) if the box is checked then the user agrees to receive a new order for the extension of the purchased license operation right before its' expiration time.

When order details are verified, then **PLACE ORDER** should be pressed. This will create an invoice document for the order and forward the user to the last step of the license purchase process.

Order

In this last step the user will see the bank details to wire funds for the invoice total.

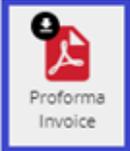
Buy cloud services

Progress: ✓ Pick services ✓ Cart 3 Order



Aranet Cloud

Invoice number: **ARANET-**
Created at:
Due date:
Payment type: **Card payment**
Status: **Awaiting payment**

Supplier: AS SAF Tehnika LV40003474109 Ganību dambis 24a, Rīga, LV-1005, Latvia +371 670 468 40 Swedbank AS LV69HABA01308055220ST	Bill to: Aranet LV40003474109 Aranet street 777, Aranetown, LV- 777, Latvia +371 777777	Invoice file:  Proforma Invoice 1
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Aranet services	Price	Quantity	Total
Aranet Cloud service for PRO base station /365 days	108.00 EUR	x 1	108.00 EUR
Aranet Cloud 100 sensors pack /365 days	120.00 EUR	x 1	120.00 EUR

Subtotal	228.00 EUR
Volume discount at 10%	22.80 EUR
VAT charged at 21%	43.09 EUR

TOTAL **248.29 EUR**

2 **CANCEL ORDER** **3** **PAY (CARD PAYMENT)**

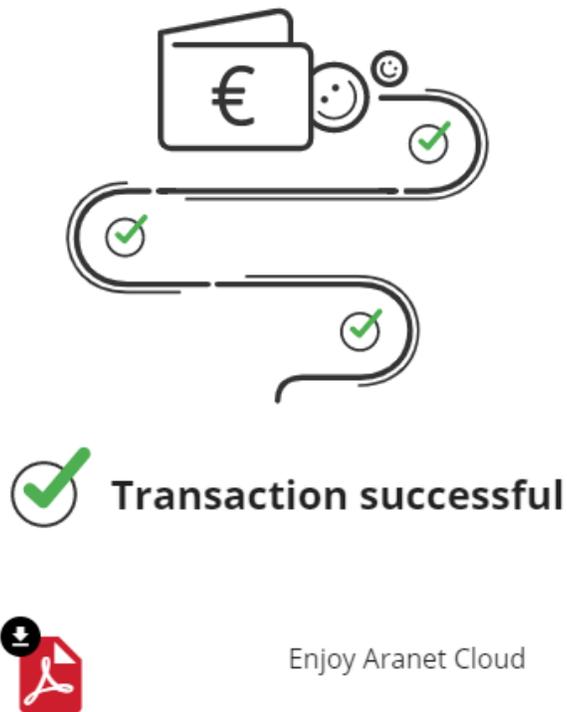
- 1) download order proforma/ *Initial invoice file* in PDF format;
- 2) click on this button to **CANCEL ORDER**;
- 3) **PAY (CARD PAYMENT)** will be shown only if **CARD PAYMENT** has been selected in the previous step. Clicking on this button new page will open where credit card details should be entered to finish the purchase process of the Aranet Cloud license:

CARD PAYMENT



<p>NAME ON CARD: <input style="width: 90%;" type="text" value="Aranet Cloud"/></p> <p>CARD NUMBER: <input style="width: 90%;" type="text" value="7777 7777 7777 7777"/></p> <p>EXPIRY DATE (MM / YY): <input style="width: 30%;" type="text" value="12"/> / <input style="width: 30%;" type="text" value="25"/></p> <p>CVV2/CVC2: <input style="width: 60%;" type="text" value="777"/> ⓘ</p> <p style="text-align: center;">SUBMIT</p>	<p style="text-align: center;">Aranet Cloud from https://aranet.cloud</p> <hr/> <p style="text-align: center;">Amount 248.29 EUR</p> <hr/> <p style="text-align: center;">Verified by:  </p>
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If the payment with a credit card is successful, then the following message will be shown where the user at once can also download the invoice in PDF format by clicking on  icon :



Once the payment via CARD PAYMENT or BANK TRANSFER is received in the SAF Tehnika bank account seen in the invoice, the Aranet Cloud organization will be activated for Aranet PRO base station registration

and sensor data reception. In such cases the person who is the Owner of the corresponding Aranet Cloud organization will be notified also by e-mail message:

noreply@aranet.cloud
to me ▾



ARANET CLOUD

License updated

License has been successfully updated for organization

Enjoy Aranet Cloud

If you have problems accessing your ARANET CLOUD account, contact us at support@aranet.com

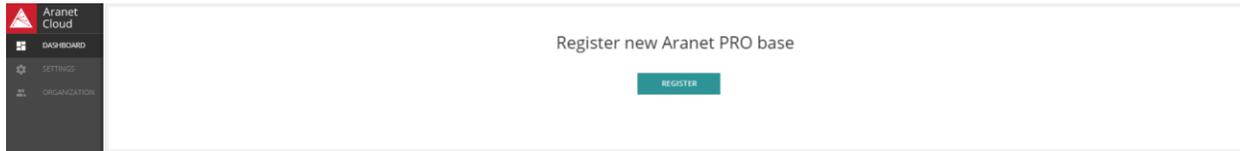
Note that bank transfers can take a few days. If you require faster activation please, contact your sales representative or write an e-mail message to info@aranet.com including confirmation that payment has been made. Until payment is received and the organization is not activated in Aranet Cloud, then the message about payment processing will be shown in **DASHBOARD** section. Clicking on **VIEW ORDER** button will bring the user to the section **ORGANIZATION** tab **SHOP**:

Payment is not received yet. It may take a few days to process international payments.

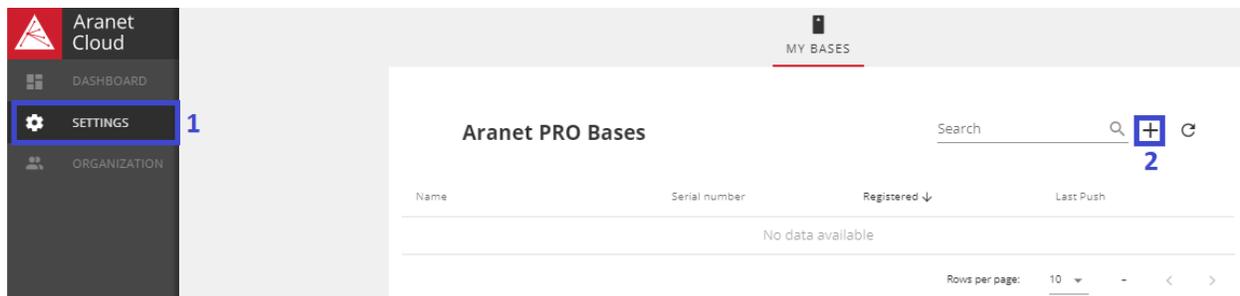
[VIEW ORDER](#)

8. Base station registration

When TRIAL LICENSE is selected during the new organization creation process or Aranet Cloud organization with purchased time-licensed license becomes activated, then the message in **DASHBOARD** section will change to *Register new Aranet PRO base station* and **REGISTER** button can be pressed to connect the base stations.



The same Aranet PRO base station registration process can be started also from **SETTINGS** section **MY BASES** tab clicking on "+" icon:



The Aranet Cloud platform will create a new registration code (*valid for 1 hour*) for the Aranet PRO base station. The system will also show an appropriate pop-up window message with instructions on how to proceed in the registration process:



To activate this base :

- Log in into Aranet PRO base's WEB page as admin
- Navigate to service settings
- In cloud section enter email: **aranet.cloud@gmail.com** 
- Enter this registration code: **332357** 
- **This registration code expires in an hour**

When registration code is created on the Aranet Cloud system side, then the next user has to log in to Aranet PRO base station WEB graphical interface, go to the **Aranet Cloud** section and here enter in appropriate fields the same e-mail and registration code as prompted in Aranet Cloud message. Then the user has to click the button **REGISTER TO THE CLOUD**:

Cloud Search

Available
Cloud service availability

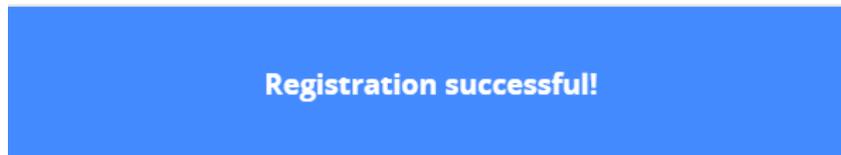
Use Aranet cloud
 Use a custom cloud server

E-mail *
aranet.cloud@gmail.com

Registration code *
332357 6 / 6

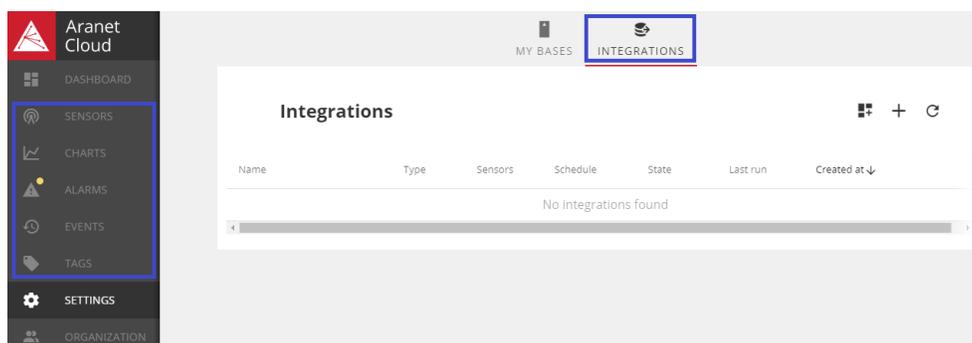
REGISTER TO THE CLOUD

If the registration process of the Aranet PRO base in the Aranet Cloud is successful, then an appropriate success message will be shown in Aranet PRO base station WEB graphical interface:



Then the Aranet PRO base will start its' paired sensor measurement data upload to the Aranet Cloud platform. The sensor data upload process depending on sensor data amount and data connection speeds between Aranet PRO base station and Aranet Cloud system can take up to 20 – 30 minutes. During this process sensor data will gradually appear in the Aranet Cloud organization.

Additionally, after successful registration of the first Aranet PRO base station in the organization new sections: **SENSORS, CHARTS, ALARMS, EVENTS** and **TAGS** will become visible in the main menu panel of the Aranet Cloud organization. **INTEGRATIONS** tabs will also appear in the **SETTINGS** section:



After successful registration and sensor data upload to the Aranet Cloud organization the Aranet PRO base station itself will show the following information in **Aranet Cloud** section:

	Available	Cloud service availability	
	Aranet Cloud	Cloud organization	1
	Aranet-733abd	Cloud device name	2
	2020-	Earliest uploaded data	3
	2020-	Latest uploaded data	4
	2020-	Last changes to sensor settings	5

Enable cloud upload

Use Aranet cloud

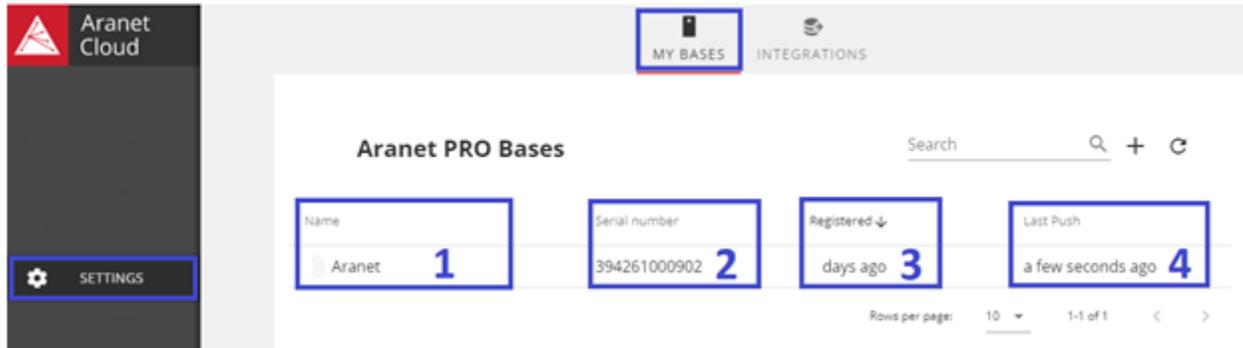
Use a custom cloud server

UNREGISTER FROM THE CLOUD

- 1) **Cloud organization** to which the Aranet PRO base station is registered;
- 2) **Cloud device name** – shows the name that is visible for the Aranet PRO base station in the registered Aranet Cloud organization;
- 3) **Earliest uploaded data** – shows the oldest sensor data on the Aranet PRO base station which was uploaded to the Aranet Cloud organization;
- 4) **Latest uploaded data** - shows the most recent sensor data that was uploaded to the Aranet Cloud organization;
- 5) **Last changes to sensor settings** – shows the date and time when the latest sensor configuration changes were made on the Aranet PRO base station.

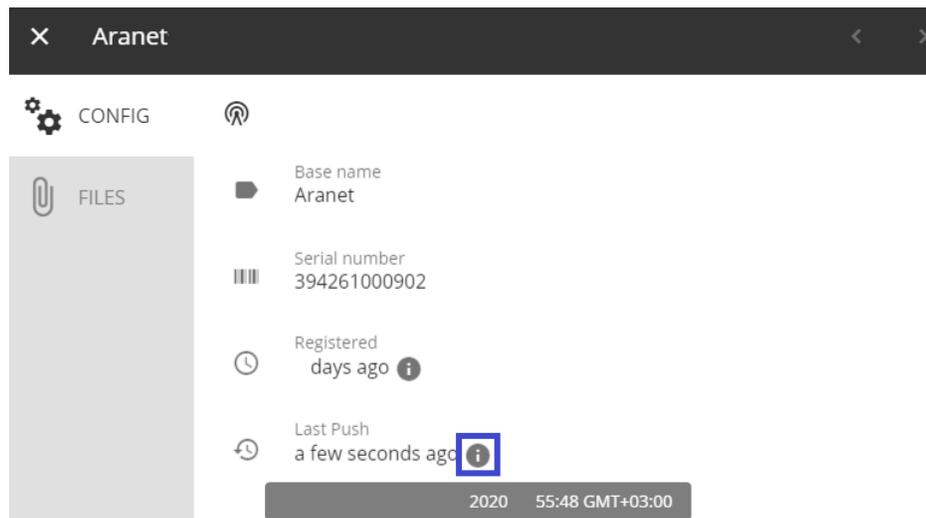
On this page Aranet PRO base station can be also **UNREGISTER FROM THE CLOUD** organization by pressing the appropriate button.

In the Aranet Cloud organization the **MY BASES** tab will show information about the registered base stations:



- 1) **Name** – the name of the registered Aranet PRO base station;
- 2) **Serial number** – serial number of the registered Aranet PRO base station;
- 3) **Registered** – shows how long time ago (in minutes, hours, days or months) the PRO base station was registered;
- 4) **Last push** – shows how long time ago (in minutes, hours, days or months) the last data upload (“push”) occurred from the PRO base station to the Aranet Cloud organization.

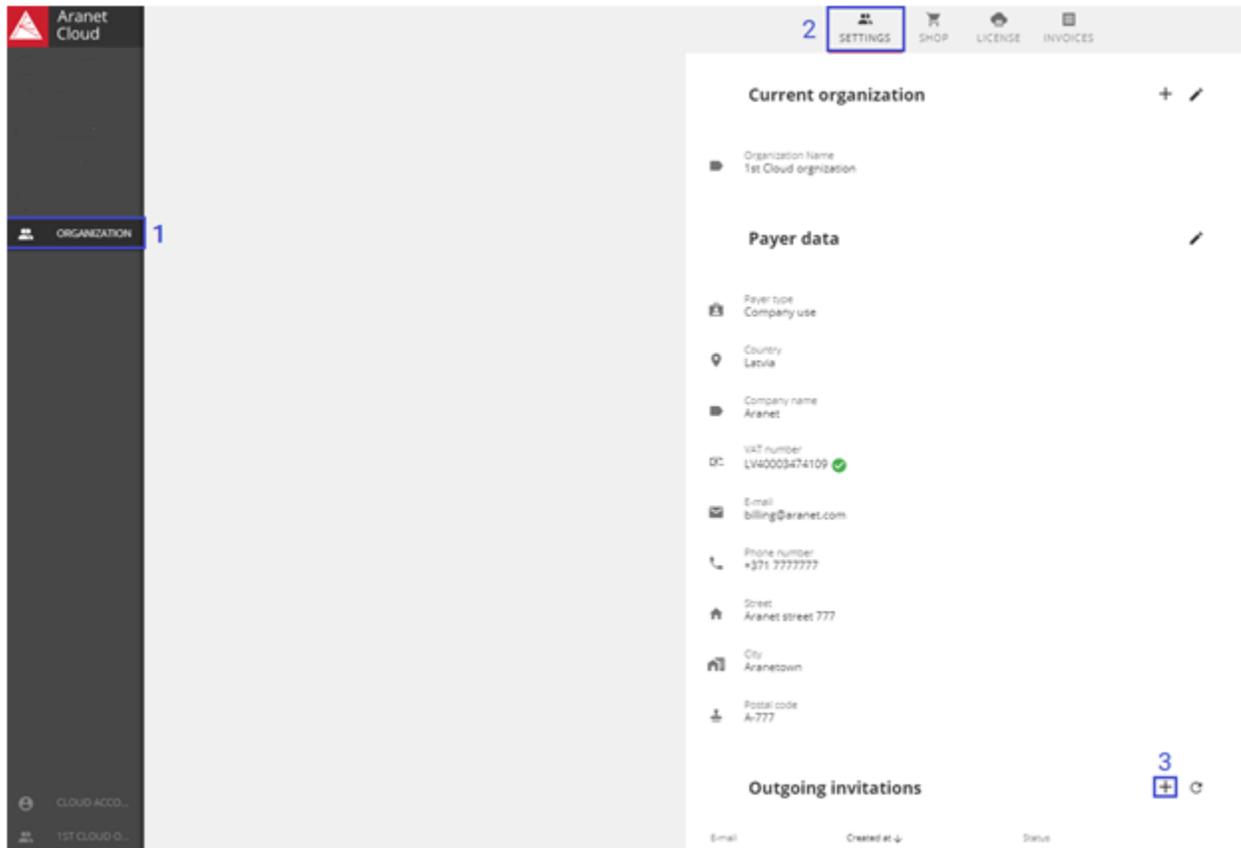
Click on an Aranet PRO base in this tab and a new pop-up window will open where more detailed information on **Registered** and **Last push** time can be viewed by moving the cursor over the **i** icons:



9. Invitations to join the organization

Once the organization is created the Owner of the organization can send e-mail invitations to any other person outside the Aranet Cloud or some other already existing Aranet Cloud account user to join the organization.

This can be done from section **ORGANIZATION** tab **SETTINGS** bottom subsection **Outgoing invitations**. To create a new e-mail invitation “+” icon should be pressed:



Such operation will open a new window where the details on the new e-mail invitation should be entered:

The screenshot shows a dialog box titled 'Send new invitation'. It has a close button (X) in the top left. The dialog contains two input fields: 'E-mail' with the value 'emailaddress@emailserver.com' and 'Role' with the value 'Administrator'. Below the fields are two icons: a circular icon with a plus sign (labeled 'c') and a square icon with a plus sign (labeled 'd').

- a. **E-mail** – allows specifying the e-mail address where the invitation should be sent;
- b. **Role** – allows to select the role (User or Administrators) that account will have in the organization when invitation will be accepted;
- c. **Reset**  - allows resetting all unsaved changes in the window;
- d. **Send**  - click to send the invitation.

When the invited person receives the invitation e-mail in the mailbox, she/he first needs to accept the invitation by clicking on **ACCEPT INVITATION** button in the received e-mail message:

You are invited to join the Aranet Cloud  

noreply@aranet.cloud
to me 



Welcome to
ARANET CLOUD

You have been invited to ARANET CLOUD organization
1st Cloud organization

ACCEPT INVITATION

If you have problems accessing your ARANET CLOUD account, contact us at support@aranet.com

This will open a new page in the web browser where the invitation should be confirmed by clicking on **JOIN THIS ORGANIZATION**:



You have received an invitation to join
the organization

1st Cloud organization

Do you want to join this organization ?

JOIN THIS ORGANIZATION

After that system will evaluate by e-mail address whether the person has an already registered account in the Aranet Cloud system:

- 1) If the person has a registered account, then the system will offer to **LOGIN INTO ARANET CLOUD**. After login the Aranet Cloud account will be switched to the organization that the person just joined;



You have received an invitation to join
the organization

You have joined organization successfully!

[LOGIN INTO ARANET CLOUD](#)

- 2) If the person does not have a registered account in the Aranet Cloud system, then the person first needs to register a new account in Aranet Cloud with the same e-mail address where the invitation message was delivered by pressing **REGISTER** button (for details see chapter **USER ACCOUNT REGISTRATION**).



You have received an invitation to join
the organization

You have joined organization successfully!

Please create Aranet Cloud account by clicking button below

[REGISTER](#)

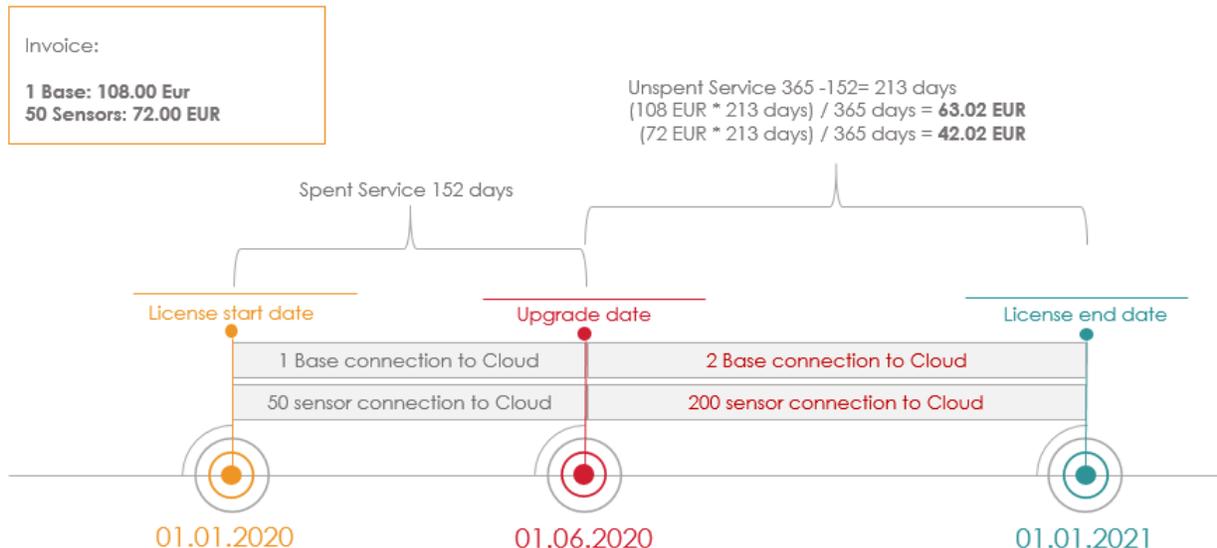
After registration is done the person just needs to login to the registered Aranet Cloud account to see the data from the organization the person just joined.

10. Renewal of license

As only one license can be active for an Aranet Cloud organization at a time, then a new license for an additional time-period can be purchased only when 15 or fewer days are left till the active license expiration date or it has already expired. Such a new license purchase process is the same as for the initial **PURCHASE OF LICENSE**. However the user will be able to buy only a new license that will have the number of Bases and Sensors at least as many as the previous license had.

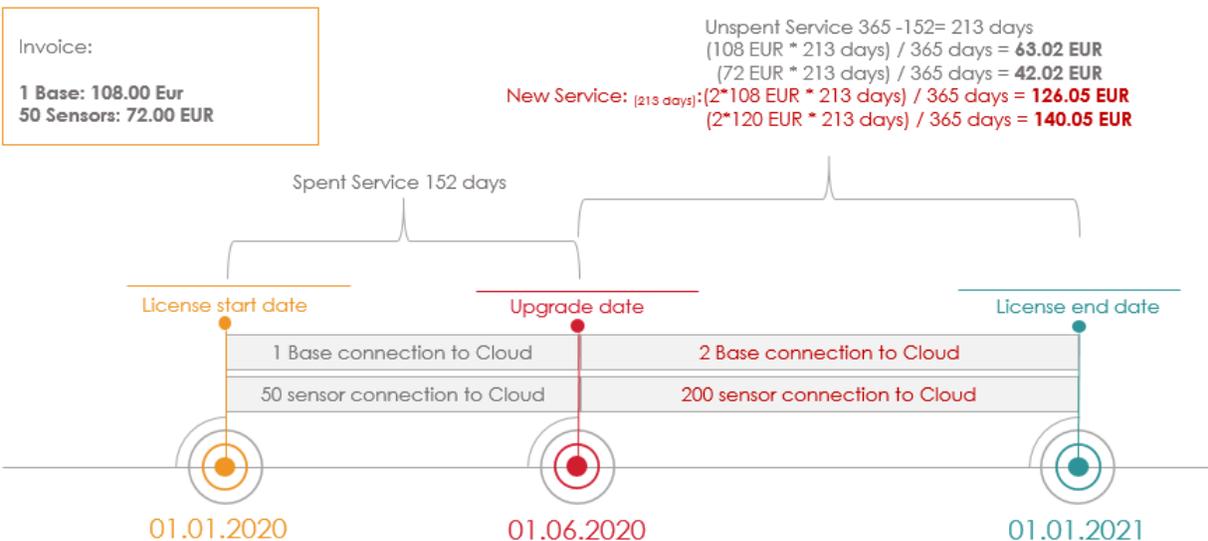
As for any active Aranet Cloud license, then it is possible to add additional Bases and Sensors to the active license unless there are 7 or fewer days till the expiration date of the license. In such a scenario expiration period of the new license will remain the same as for the previous license, but the user will be able to register and connect additional Bases and Sensors to Aranet Cloud till the license end date. Here the price for the new license is calculated in the following way:

- 1) Aranet Cloud system calculates how many days are left till the expiration date of the active license. For example, if the initial license has been purchased for 1 base station and 50 sensors on 01.01.2020 for 1 year and the user want to purchase a new license on 01.06.2020, then **152 days** have passed and $365 - 152 = 213$ days have been left;
- 2) Next Aranet Cloud calculates the leftover value of the currently active licenses individually for the base stations and for the sensors. The base station and sensor license values are taken as per **TABLE 7-1 LICENSE PRICES IN EUR** without VAT and not taking into account any discount that has been applied to the purchase price of the currently active license. In our above mentioned example, initial 1 year license price in EUR was 108 (1 Base) + 72 (50 sensors) = $180 * 0.9$ (10% discount) = 162 EUR, but in this calculation full license prices are used, so leftover value for base station part is $(108 \text{ EUR} * 213 \text{ days}) / 365 \text{ days} = 63.02 \text{ EUR}$, but for sensors $(72 \text{ EUR} * 213 \text{ days}) / 365 \text{ days} = 42.02 \text{ EUR}$:

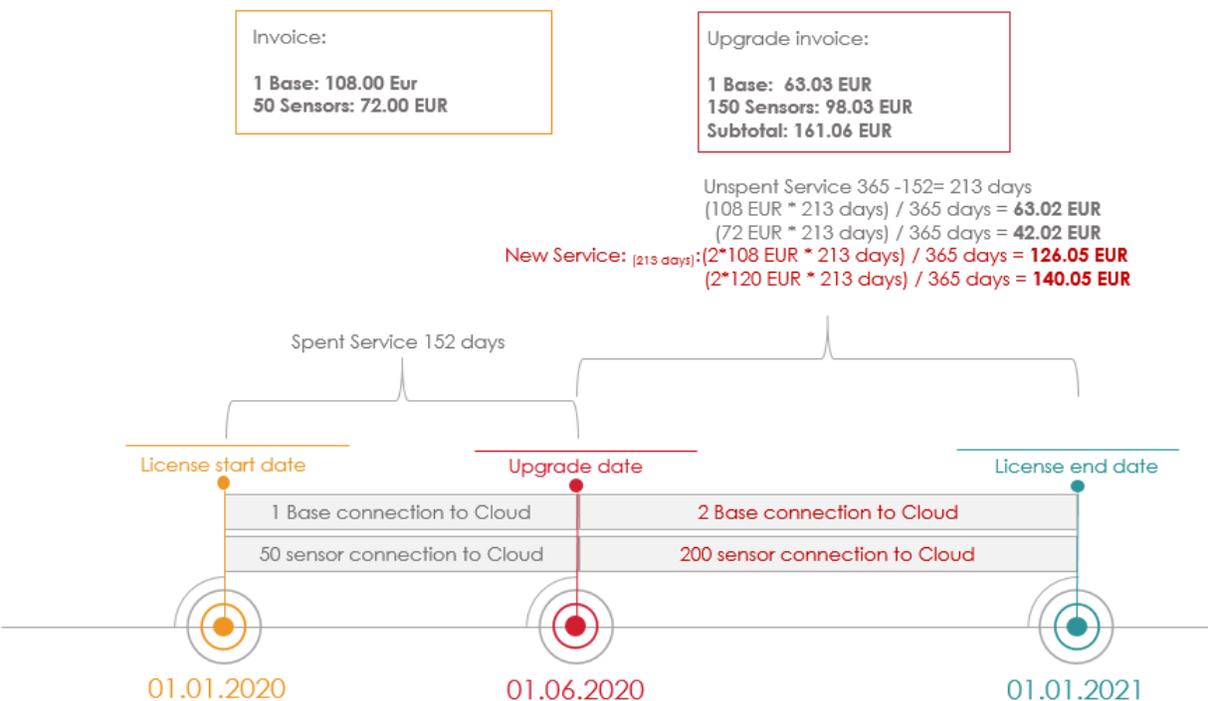


- 3) Then system separately calculates what would be the cost without VAT of license for the new number of bases and the new number of the sensors. Let's assume that with our previously mentioned initial license user wants to upgrade it to 4 bases and 200 sensors. Cost for 4 bases till the expiration date of the license would be $(2 * 108 \text{ EUR} * 213 \text{ days}) / 365 \text{ days} = 126.05 \text{ EUR}$

and for 200 sensors: $(2 \times 120 \text{ EUR} \times 213 \text{ days}) / 365 \text{ days} = 140.05 \text{ EUR}$. The new license calculation system always combines the largest possible sensors packs (that cost less) to assemble the new necessary sensor number, so in our example, the system will take just 2 packs for 100 sensors that cost $= 2 \times 120 \text{ EUR} = 240 \text{ EUR}$ instead of 4 packs for 50 sensors that would cost $4 \times 72 \text{ EUR} = 288 \text{ EUR}$:



- 4) Next system subtracts base and sensor license leftover values from the new license cost values: for bases: $126.05 \text{ EUR} - 63.02 \text{ EUR} = 63.03 \text{ EUR}$ and for sensors: $140.05 \text{ EUR} - 42.02 \text{ EUR} = 98.03 \text{ EUR}$ and then counts both values as subtotal license value before VAT application: $63.03 \text{ EUR} + 98.03 \text{ EUR} = 161.06 \text{ EUR}$. Finally to get the total invoice value system applies VAT and then such order can be placed, paid or canceled as in the initial **PURCHASE OF LICENSE**:



As for the time periods then:

- 1) If there are more than 15 days before the license expiration date, then the user can only upgrade the existing license with the necessary additional sensor and base number;
- 2) If there are 7 to 15 days before the license expiration date, then the user can both upgrade the existing license and buy a license for a new period;
- 3) If there are less than 7 days before the license expiration date, then the user can buy only a license for a new period.