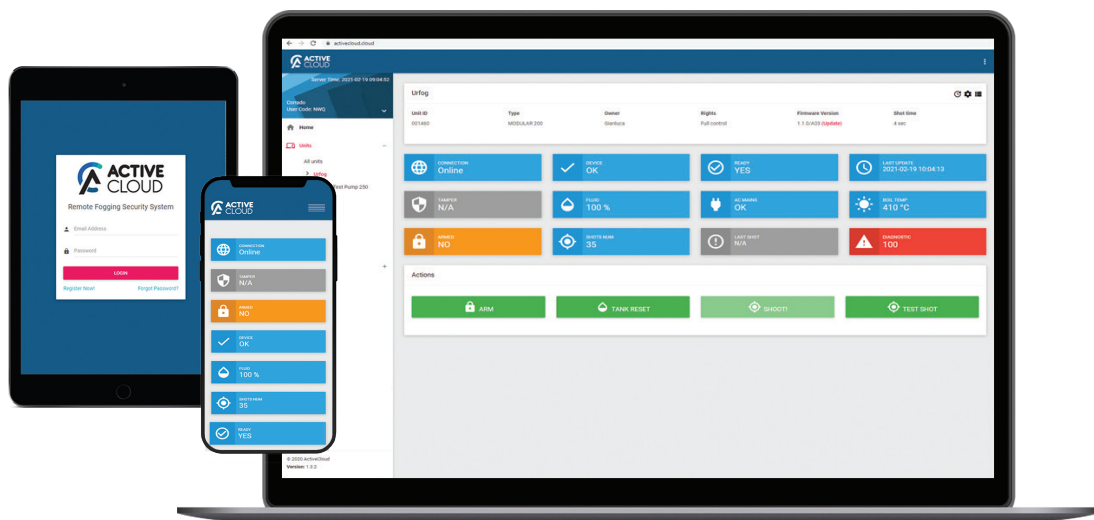




Web control platform for
antintrusion fogging devices



ActiveCloud web application manual 1.6.1. – March 2025

SUMMARY

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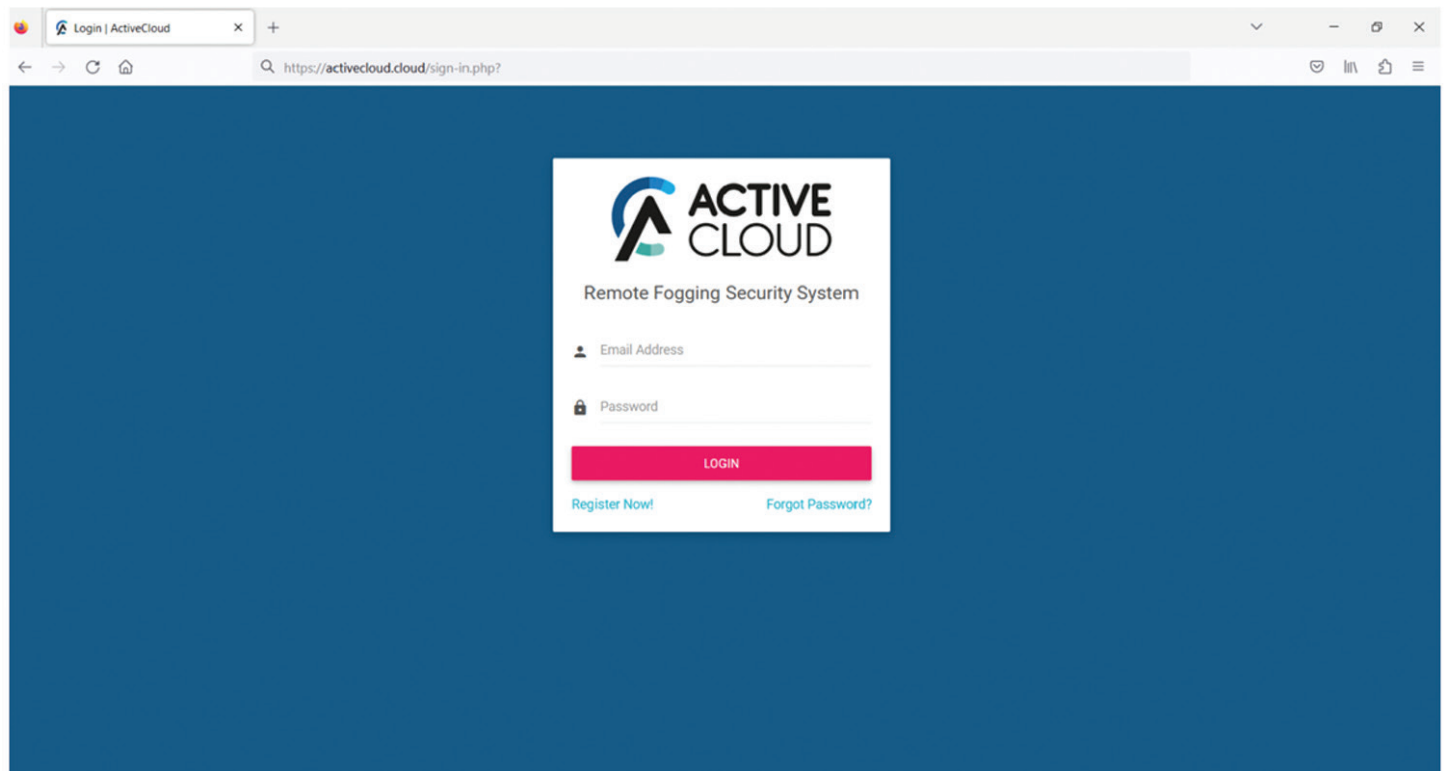
1 ACTIVECLOUD QUICK START GUIDE

ActiveCloud is a WEB application that allows users to control and activate a security fog device or a group up to 10 different devices from remote using a Personal Computer, Smartphone (refer to point 3.0 MOBILE SETUP) or Web TV connected to the internet. No specific performance or operating systems are required on the devices browsing the web.

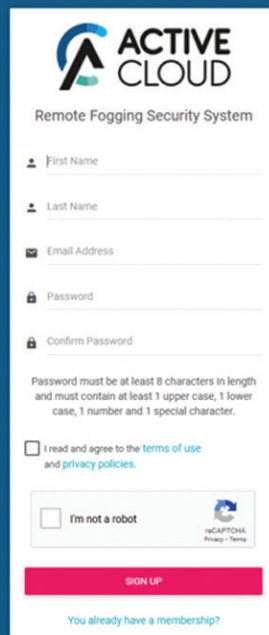
The ActiveCloud web application was tested with the most important browser available on the web and it is constantly updated to give to customers the best functionality performance.

Note for smatphone user: The ActiveCloud is a web application developed on same API to be executed on any device browsing the internet. No downloads are required for the ActiveCloud usage. It is suggested to speed up the login procedure to create a desktop link after browsing activecloud.cloud web site.

Login to the cloud application at the following address Activecloud.cloud



Fill in the required fields (username and password) and click on the "LOGIN" button.
If you don't have an account, register a new account by clicking on the "Register Now!" link.



The image shows a sign-up form for the ActiveCloud Remote Fogging Security System. The form is centered on a dark blue background. It includes fields for First Name, Last Name, Email Address, Password, and Confirm Password. A password strength indicator is present below the password fields. There is a checkbox for agreeing to terms and privacy policies, a reCAPTCHA 'I'm not a robot' checkbox, and a 'SIGN UP' button. A link for existing members is at the bottom.

ACTIVE CLOUD
Remote Fogging Security System

First Name

Last Name

Email Address

Password

Confirm Password

Password must be at least 8 characters in length and must contain at least 1 upper case, 1 lower case, 1 number and 1 special character.

☐ I read and agree to the [terms of use](#) and [privacy policies](#).

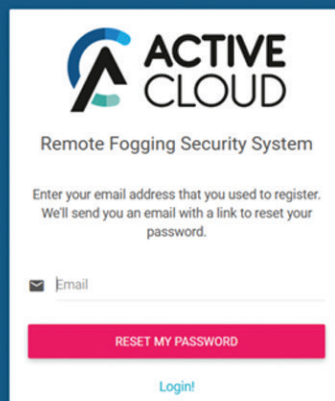
☐ I'm not a robot  [Privacy](#) - [Terms](#)

SIGN UP

[You already have a membership?](#)

Fill in the required fields (Last Name, First Name, Email Address, Password and Confirm Password) and click on the “SIGN UP” button. You will receive an email from ActiveCloud to activate your account. Follow the instructions, activate the account and login to the Cloud.

If you already have an account and you forgot the password click on the “Forgot Password” link.



The image shows a password reset form for the ActiveCloud Remote Fogging Security System. It is centered on a dark blue background. The form asks for the email address used for registration and includes a 'RESET MY PASSWORD' button. A 'Login!' link is at the bottom.

ACTIVE CLOUD
Remote Fogging Security System

Enter your email address that you used to register.
We'll send you an email with a link to reset your password.

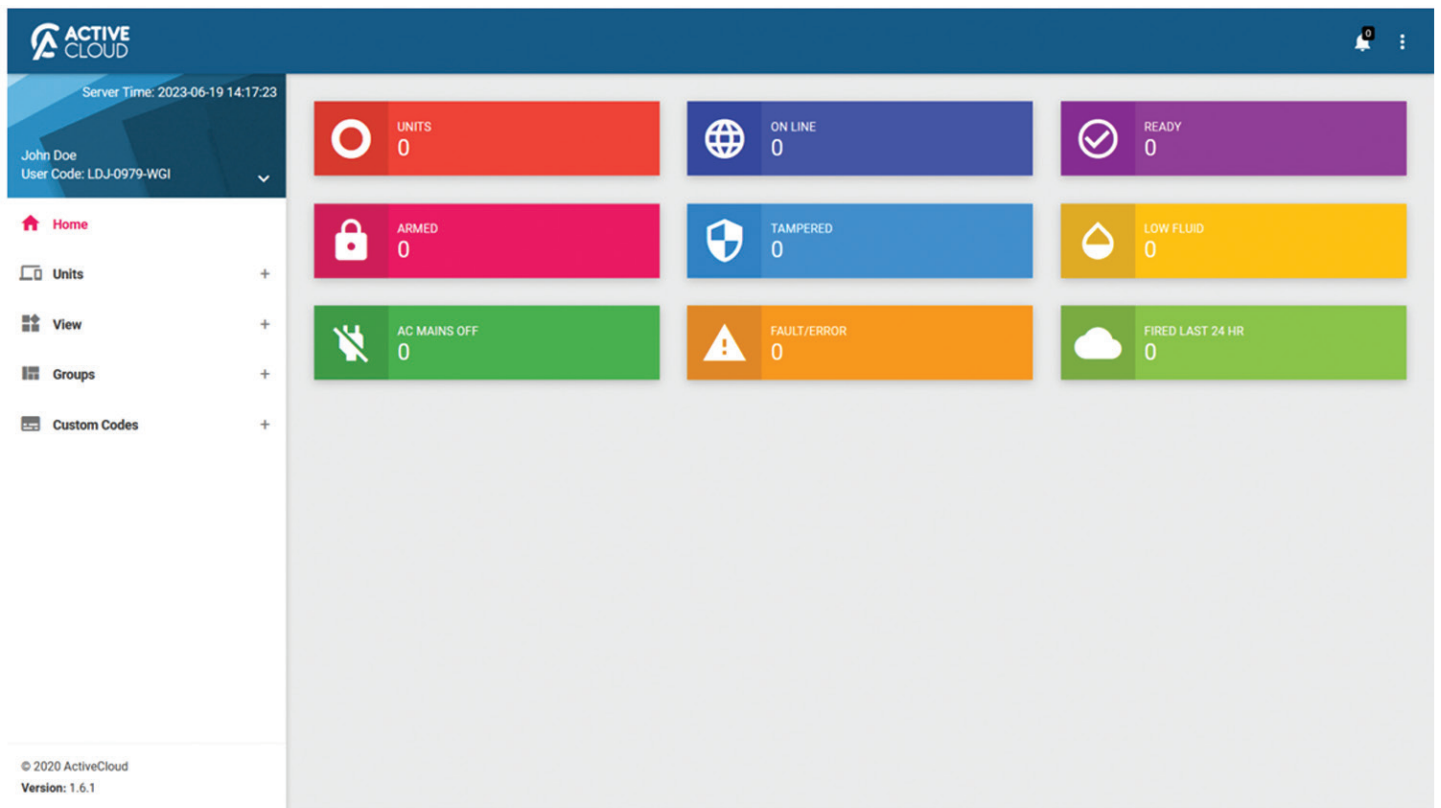
Email

RESET MY PASSWORD

[Login!](#)

Fill in the required field with the email used for registration and click on the “RESET MY PASSWORD” button. You will receive an email from ActiveCloud, follow the instructions, change and confirm your password and login back to the Cloud.

When you login to the ActiveCloud you have access to the HOME DASHBOARD.



Left panel shows essential information and the menu. Right panel shows a synthetic view of the status of the user's devices. Click on the vertical dots icon (icon ) on the top-right to view and edit the user profile (icon ) or to logout (icon )

Left panel essential information is:

- **Server time:** UTC server time;
 - **User name:** first and last user names;
 - **User code:** univocal identification code, auto generated by the server at registration time.
- Click on the top right sign (icon ) to view and edit the user profile (icon ) or to logout (icon )

Left panel menu items are:

- **Home:** open the HOME DASHBOARD.
- **Units:** open the UNITS DASHBOAD with a list of the units managed by the user (add new units).
- **View:** open the MONITORING DASHBOARD with a list view of the user's unit status.
- **Groups:** open the user defined groups of devices.
- **Custom Code:** open the units Dashboard sorted by user defined custom code.

Right panel synthetic view of the status of the user's devices:

- **Units:** total number of user units.
- **Online:** number of online units (active units connected to the server).
- **Ready:** number of units currently ready to shoot.
- **Armed:** number of units currently armed.
- **Tampered:** number of units currently tampered.
- **Low Fluid:** number of units with empty tank or not enough fluid to shoot.
- **Power off:** number of units powered by battery and not by AC mains socket.
- **Fault/error:** number of units currently in fault or error status.
- **Fired last 24 hr:** number of units that have fired in the past 24 hours.

Click on the icons to open filtered MONITORING DASHBOARDS with the list of units in that status (i.e. click on Units to open the list of all units, or click on **Ready** to view the list of ready units, etc.).

1.1 UNITS DASHBOARD

Open the UNITS DASHBOARD by clicking on the **Units** item in the left panel menu.

The dashboard shows a table of the units managed by the user, i.e. the units owned by the user plus the units owned by other users and for which management has been granted.

Server Time: 2023-06-19 14:42:06

John Doe
User Code: LDJ-0979-WGI

Home

Units

> All units

Warehouse Pump 250

Office Pump 500

Outdoor Pump 14000

View

Groups

Custom Codes

© 2020 ActiveCloud
Version: 1.6.1

User Units

Refreshed: 2023-06-19 16:41:50

Show 10 entries

Search:

Unit ID	Name	Type	Firmware Version	Owner	Role	Last Update	Actions
002265	Warehouse Pump 250	PUMP 250	Lan: 1.4.3 Unit: A02	John Doe	Owner	2023-06-19 16:40:05	
006123	Office Pump 500	PUMP 500	Lan: 1.4.3 Unit: A02	John Doe	Owner	2023-06-19 16:40:32	
008823	Outdoor Pump 14000	PUMP 14000	Lan: 1.3.3 (Update) Unit: A02	Neil Dareyl	Maintenance	2022-12-28 11:56:15	

Showing 1 to 3 of 3 entries

Previous 1 Next

+ Add New

For each unit the table shows:

- **Unit ID:** the unit serial number.
- **Name:** the unit name as defined by the user.
- **Type:** the unit type.
- **Firmware Version:** 1st line the release of firmware installed on the Card . 2nd line the used protocol.
- **Owner:** the name of the unit owner.
- **Role:** the user role for the unit (i.e. Ownership, Full Control, Maintenance and Monitoring).
- **Last Check:** last time the unit was on line (connection status).

For each unit four actions, represented by four icons, are possible:

- **Dashboard** (icon): open the UNIT DASHBOARD.
- **Refresh** (icon): refresh the current unit status.
- **Configuration** (icon): open the UNIT CONFIGURATION DASHBOARD.
- **Remove** (icon): remove the unit from the Cloud for the owned unit, remove the unit from the managed units for the not owned units.

1.1.1 ADD A NEW UNIT

Connect the unit with the Ethernet RJ45 cable , turn it on and, if special configuration is needed, use a pc with Microsoft operating system to load custom configuration on cloud card using the **ActiveCloud board configuration** software.
Once the unit is properly configured and connected to the Internet click the **Add New** icon at the end of the page to add a new unit to the ActiveCloud database.

The screenshot displays the ActiveCloud web interface. On the left is a sidebar menu with options: Home, Units (with a sub-menu for 'All units' and specific units like 'Warehouse Pump 250'), View, Groups, and Custom Codes. The main area shows a table of units with columns: Unit ID, Name, Type, Firmware Version, Owner, Role, Last Update, and Actions. Below the table is a form titled 'Add New' with fields for Unit Name, Unit ID Number, and Unit Authorization Key, and an 'Add' button.

Unit ID	Name	Type	Firmware Version	Owner	Role	Last Update	Actions
002265	Warehouse Pump 250	PUMP 250	Lan: 1.4.3 Unit: A02	John Doe	Owner	2023-06-19 16:40:05	[Icons]
006123	Office Pump 500	PUMP 500	Lan: 1.4.3 Unit: A02	John Doe	Owner	2023-06-19 16:40:32	[Icons]
008823	Outdoor Pump 14000	PUMP 14000	Lan: 1.3.3 (Update) Unit: A02	Neil Dareyl	Maintenance	2022-12-28 11:56:15	[Icons]

Showing 1 to 3 of 3 entries

Previous 1 Next

Add New

Unit Name: _____ Description: _____

Unit ID Number: _____ Identification number: _____

Unit Authorization Key: _____ Authorization Key (UPPERCASE, no numbers): _____

Add

Enter a name for the unit, the serial number and the authorization key provided with the unit and click on the ADD button.
If the installation is successful the unit will be added to the table above.

1.2 MONITORING DASHBOARD

Open the MONITORING DASHBOARD by clicking on the **View** item in the left panel menu.
The dashboard shows a table of the units managed by the user and for each unit its current status.

Click on the sub items to filter the units in the table:
i.e. click on the **Ready** sub item to list ready units, or on the **Armed** sub item to list armed units, etc.
Click on the **All units** sub item to list all units.

For each unit the table shows:

- **Role:** the role the user has for that unit, i.e. Ownership (O), Full control (F), Maintenance (M), Monitoring (V).
- **Name:** the unit name as entered by the user.
- **Connection:** Internet connection status. ONLINE/OFFLINE: ActiveCloud board connected or offline.
- **Board unit link:** Fog device connection status. ONLINE/OFFLINE: device connected/disconnected.
- **Ready:** device status. YES/NO: device ready to shot (*) or not.
- **Armed:** device status. YES/NO: device armed or not armed.
- **Tamper:** device status. OK/TAMPERED: device ok or tampered.
- **Fluid:** device fluid tank status. OK/LOW FLUID: tank full or tank empty or not enough fluid.
- **Shots:** total number of shots executed by the unit.
- **AC Mains:** power status. OK/NO: powered by AC mains or powered by back up battery.
- **Diagnostic:** diagnostic status. Error n./Fault n. in case of error or fault of the unit.
- **Last shoot:** Results (OK/FAIL) and recorded time of the last shot.
- **Last check:** last time the unit was on line (connection status).

Server Time: 2023-06-19 14:56:15

John Doe

User Code: LDJ-0979-WGI

Home

Units

View

All units

On line

Off line

Ready

Armed

Tampered

Low Fluid

AC Mains Off

Fault/Error

Fired Last 24 Hr

Groups

© 2020 ActiveCloud

Version: 1.6.1

Units Details

Refreshed: 2023-06-19 16:55:32

Show 10 entries

Search:

#	Name	Connection	Board/Unit Link	Ready	Armed	Tamper	Fluid	Shots	AC Mains	Diagnostic	Last Shot	Last Update
M	Outdoor Pump 14000	Offline	OK	NO	NO	WARNING	OK	0	OFF			2022-12-28 11:56:15
O	Warehouse Pump 250	Online	OK	YES	YES	OK	OK	16	OK		2023-04-06 16:34:12	2023-06-19 16:54:07
O	Office Pump 500	Online	OK	NO	NO	WARNING	OK	0	OFF			2023-06-19 16:54:32

Showing 1 to 3 of 3 entries

Previous

1

Next

For each unit four actions, represented by four icons, are possible:

- **Dashboard** (icon): open the UNIT DASHBOARD.
- **Refresh** (icon): refresh the current unit status.
- **Configuration** (icon): open the UNIT CONFIGURATION DASHBOARD.
- **Log** (icon): open the UNIT LOG DASHBOARD.

1.3 UNIT DASHBOARD

Open the UNIT DASHBOARD by clicking on the Dashboard icon in the UNIT or VIEW DASHBOARDS. The dashboard shows widgets with unit info, unit current status and unit actions.

Info widgets:

- **Unit ID**: unit serial number.
- **Type**: unit type.
- **Owner**: unit owner name.
- **Rights**: user role for the unit (Ownership, Full control, Maintenance, View).
- **Firmware Version**: Lan Card Firmware installed and protocol used on device.
- **Shot time**: Actual shot time programmed on the unit.
- Status widgets: see MONITORING DASHBOARD for the details.
- **Note**: The status widgets may change from unit to unit of different models depending on the protocol and on the relevant informations passed to the web application.

Action widget (confirmation with a popup is always required):

- **Arm**: arm/disarm the unit.
- **Tank Reset**: reset the tank status after a fluid tank replacement.
- **Shoot**: request the unit to perform a shot.
- **Shoot test**: request the unit to perform a test shot.

Server Time: 2023-06-19 15:07:05

John Doe
User Code: LDJ-0979-WGI

Warehouse Pump 250

Unit ID	Type	Owner	Rights	Firmware Version	Shot time
002265	PUMP 250	John Doe	Owner	Lan: 1.4.3 Unit: A02	10 sec

CONNECTION
Online

BOARD/UNIT LINK
OK

READY
YES

LAST UPDATE
2023-06-19 17:06:09

TAMPER
OK

FLUID
OK

AC MAINS
OK

BOIL TEMP
390 °C

ARMED
YES

SHOTS NUM
16

LAST SHOT
2023-04-06 16:34:12

DIAGNOSTIC
OK

Actions

DISARM

TANK RESET

SHOOT!

TEST SHOT

Actions buttons are enabled/disabled depending on the unit status and on the user rights for the unit.
 For Ownership and Full Control roles all actions are granted.
 For Maintenance role Tank Reset and Shoot Test are granted, Arm and Shoot are not possible.
 For Monitoring role no actions are granted.

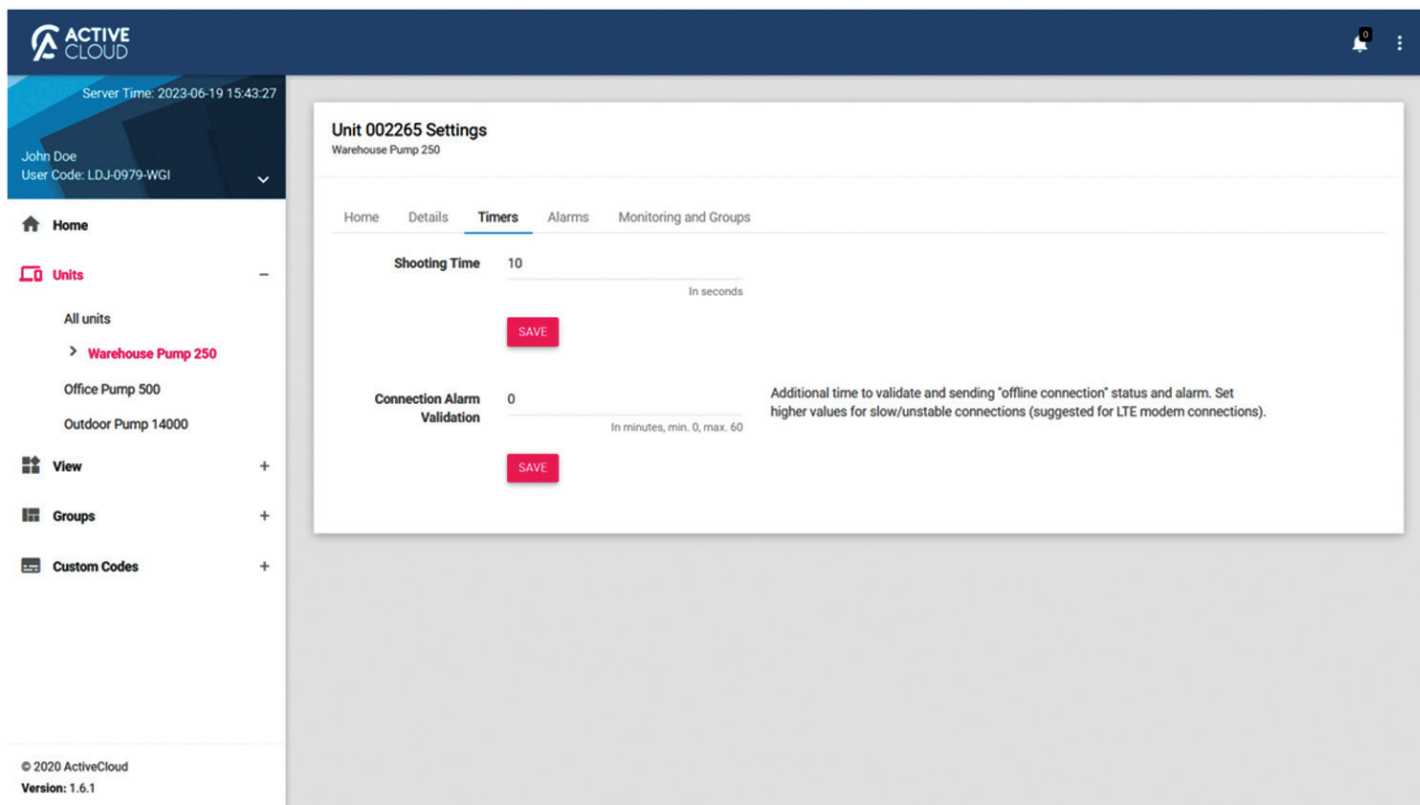
1.4 UNIT CONFIGURATION DASHBOARD

Open the UNIT CONFIGURATION DASHBOARD by clicking on the **Configuration** icon in the UNIT or MONITORING DASHBOARDS. The dashboard shows four panels for configuring the unit: Home, Details, Timers , Alarms and Monitoring and Groups.

In the **Home** panel you are allowed to:

- Change the unit name.
- Change the unit ownership: this action is granted only to the unit owner and allows transferring the ownership to another user (usercode of the user is needed).
Caution: doing this procedure the previous owner loose all rights on the selected device.
- Grant access to manage the unit. This action is granted only to the roles OWNERSHIP and FULL CONTROL and allows assigning the unit to other user. Usercode of the user and role (FULL CONTROL or MANTEINANCE or VIEW) need to be specified.

Click the SAVE button to save the current settings.



In the **Alarm panel** you are allowed to set emails (up to three) and check events for which the emails will be sent:

- Connection:
 - ON: an email will be sent when connection change from OFF to ON.
 - OFF: an email will be sent when connection change from ON to OFF.
- Ready:
 - ON: an email will be sent when Ready status change from NO to YES.
 - OFF: an email will be sent when Ready status change from YES to NO.
- Armed:
 - ON: an email will be sent when Armed status change from NO to YES.
 - OFF: an email will be sent when Armed status change from YES to NO.
- Tampered:
 - ON: an email will be sent when Integrity status change from OK to TAMPERED.
 - OFF: an email will be sent when Integrity status change from TAMPERED to OK.
- Empty Tank:
 - ON: an email will be sent when Fluid status change from OK to LOW FLUID.
 - OFF: an email will be sent when Fluid status change from LOW FLUID to OK.
- Fault/Error:
 - ON: an email will be sent when Diagnostic status change from OK to FAULT/ERROR.
 - OFF: an email will be sent when Diagnostic status change from FAULT/ERROR to OK.
- AC Mains:
 - ON: an email will be sent when AC Mains status change from OK to NO.
 - OFF: an email will be sent when AC Mains status change from NO to OK.
- Shoot:
 - ON: an email will be sent when a shoot is performed.

Note: it is possible to address different alarms emails to different recipients in any combinations; user can configure the notifications of the events to the correct person avoiding to send emails with useless informations to other users. The email address of the recipient user is free, not necessary to be registered on Activecloud.

Server Time: 2023-06-19 15:47:43

John Doe
User Code: LDJ-0979-WGI

Home

Units

All units

Warehouse Pump 250

Office Pump 500

Outdoor Pump 14000

View

Groups

Custom Codes

© 2020 ActiveCloud

Version: 1.6.1

Home

Details

Timers

Alarms

Monitoring and Groups

Email 1

John_Doe@gmail.com

Email 2

2nd email address

Email 3

3rd email address

Events

Select for which events (status change) you want receive an email notification.

	Email 1	Email 2	Email 3
Connection	☒ ON ☒ OFF	☐ ON ☐ OFF	☐ ON ☐ OFF
Ready	☐ ON ☐ OFF	☐ ON ☐ OFF	☐ ON ☐ OFF
Armed	☒ ON ☒ OFF	☐ ON ☐ OFF	☐ ON ☐ OFF
Tampered	☐ ON ☐ OFF	☐ ON ☐ OFF	☐ ON ☐ OFF
Empty Tank	☐ ON ☐ OFF	☐ ON ☐ OFF	☐ ON ☐ OFF
Fault/Error	☐ ON ☐ OFF	☐ ON ☐ OFF	☐ ON ☐ OFF
AC Mains	☐ ON ☐ OFF	☐ ON ☐ OFF	☐ ON ☐ OFF
Shot	☐ ON	☐ ON	☐ ON
Overheating	☐ ON	☐ ON	☐ ON

1.5 UNIT LOG DASHBOARD

Open the UNIT LOG DASHBOARD by clicking on the **Log** icon in the UNIT or MONITORING DASHBOARDS.

The dashboard shows a chronologically ordered list of the last 500 events for the unit. The log file can be downloaded locally in .XLSX format for convenient consultation by clicking on the icon at the top right.

Server Time: 2023-07-04 15:07:47

John Doe
User Code: LDJ-0979-WGI

Home

Units

View

Groups

Custom Codes

© 2020 ActiveCloud

Version: 1.6.1

Show 25 entries

Search:

Time	Event	Description
2023-06-19 16:58:00	changed LDJ-0979-WGI "Maintenance" (CGY-9995-KIH)	User CGY-9995-KIH changed LDJ-0979-WGI role in "Maintenance"
2023-06-19 16:57:22	changed LDJ-0979-WGI "View" (CGY-9995-KIH)	User CGY-9995-KIH changed LDJ-0979-WGI role in "View"
2023-06-19 16:38:14	added LDJ-0979-WGI "Maintenance" (CGY-9995-KIH)	User CGY-9995-KIH added LDJ-0979-WGI with role "Maintenance"
2022-12-28 11:59:30	online = 0	Unit Outdoor Pump 14000 is off line
2022-12-27 18:16:46	tamper = 1	Unit Outdoor Pump 14000 door is open
2022-12-27 18:16:28	tamper = 0	Unit Outdoor Pump 14000 door is closed
2022-12-27 18:13:00	online = 1	Unit Outdoor Pump 14000 is on line
2022-12-27 18:12:54	tamper = 1	Unit Outdoor Pump 14000 door is open
2022-12-27 18:12:48	tamper = 0	Unit Outdoor Pump 14000 door is closed
2022-12-23 19:01:00	online = 0	Unit Outdoor Pump 14000 is off line
2022-12-23 18:58:38	arm = 0	Unit Outdoor Pump 14000 is disarmed
2022-12-23 11:05:55	arm = 1	Unit Outdoor Pump 14000 is armed
2022-12-23 11:05:30	online = 1	Unit Outdoor Pump 14000 is on line
2022-12-23 11:05:00	online = 0	Unit Outdoor Pump 14000 is off line

ACTIVE CLOUD

Server Time: 2023-07-04 15:09:41

John Doe
User Code: LDJ-0979-WGI

- Home
- Units
- View
- Groups
- Custom Codes

© 2020 ActiveCloud
Version: 1.6.1

User LDJ-0979-WGI

Profile | Change Password | Monitoring | Groups

First Name: John

Last Name: Doe

Email: manualcloud@gmail.com

SAVE

Remove Account Click REMOVE to cancel your ActiveCloud account. To complete the process please click on the confirmation link we will send to your email address. After that, your account will be permanently disabled and you will be no longer able to access ANY device with ActiveCloud. Please remove all units you are the owner before removing your account.

REMOVE

In the Change Password panel you are allowed to change password by entering the current password and the new password. Click on the CHANGE button to save current settings.

ACTIVE CLOUD

Server Time: 2023-07-04 15:17:06

John Doe
User Code: LDJ-0979-WGI

- Home
- Units
- View
- Groups
- Custom Codes

© 2020 ActiveCloud
Version: 1.6.1

User LDJ-0979-WGI

Profile | Change Password | Monitoring | Groups

Old Password: Old password

New Password: New password

New Password (Confirm): New password (confirm)

Password must be at least 8 characters in length and must contain at least 1 upper case, 1 lower case, 1 number and 1 special character.

CHANGE

Dual Authentication ☐ Two input authentication: password and PIN.

Dual authentication requires an additional PIN to login. PIN is sent by email and is not modifiable. Dual authentication may slow down login to ActiveCloud. If you forgot your PIN please write to registration@activecloud.cloud. Verifications on lost PINs may take up to 48hr before reply.

SAVE

It is also possible to select a "Two input authentication" login that requires both password and a PIN. On request the PIN will be sent to your registration email address. Please remember that the 2FA may slow down the login procedure.

1.7 AUTOMATED EMAIL REPORTING

In user profile it is possible to set up ActiveCloud to send automated reports via email.

This function allows a user to receive historical report of the managed units on the ActiveCloud without the need to log in.

The email address can be at the user's discretion and does not need to be an email address registered on the ActiveCloud.

The reporting email will be sent out on a daily basis, at a chosen time, with an .XLS format attachment that will include relevant diagnostic information for all units that have been selected for the reporting procedure.

To filter the units report it is also possible to check the "Error/Warnings Only" box, in this case only the units where attention is required will be included in the list.

The screenshot shows the ActiveCloud web interface. On the left is a sidebar with navigation links: Home, Units, View, Groups, and Custom Codes. The main content area is titled 'User LDJ-0979-WGI' and has tabs for Profile, Change Password, Monitoring (selected), and Groups. Under the Monitoring tab, there are three settings: 'Reporting Email' with the value 'reporting@email.com', 'Reporting Time' with the value '02:00', and 'Errors/Warnings Only' with an unchecked checkbox labeled 'Skip others'. A red 'SAVE' button is at the bottom of the settings. The top of the interface shows the server time as '2023-07-04 15:22:48' and the user's name 'John Doe' with their code 'LDJ-0979-WGI'. The footer indicates '© 2020 ActiveCloud Version: 1.6.1'.

1.8 GROUPS FUNCTIONALITY

A user can create groups of units to enhance ActiveCloud interactivity.

User can create up to 3 different groups with a maximum of 10 devices each group.

This feature simplifies the sending commands process so that an user can send a single broadcast commands to all units within a group. Therefore a command sent to a unit belonging to a group is executed at the same time by all other units.

A unit can be included in more than one group, in this case if the command is sent to this device both groups will act the same command.

Only the commands ARM/DISARM and SHOOT are allowed for broadcast execution, as FLUID TANK RESET and TEST SHOOT are device specific and cannot be performed.

The aim of the groups is to be as immediate as possible in case of emergency shooting without giving single commands to each device or to stop immediately (DISARM) the fog emission on all units in case of accidental fog generation.

Once the group is created in the user profile section, it will appear for selection in the unit settings dashboard under "Monitoring and Groups" tab.

The selected units for a group will be now listed in user profile under "Groups" tab.

WARNING: the command sent out to a unit belonging to a group will affect all units in the group. Before sending the command to the group a confirmation pop-up will be displayed as an alert reminder. Do not include units in a group role if an accidental shoot could affect site safety.

2.0 FIRMWARE UPGRADE

It is possible to upgrade the ActiveCloud board firmware directly from remote.

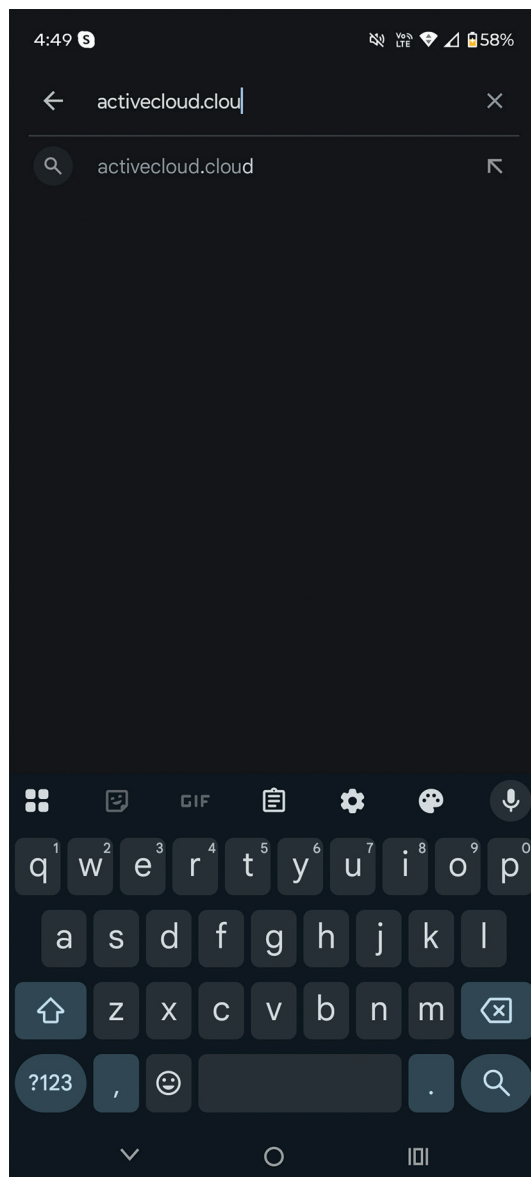
When a new firmware release is available a message in green (Update) will be shown near the actual firmware release.

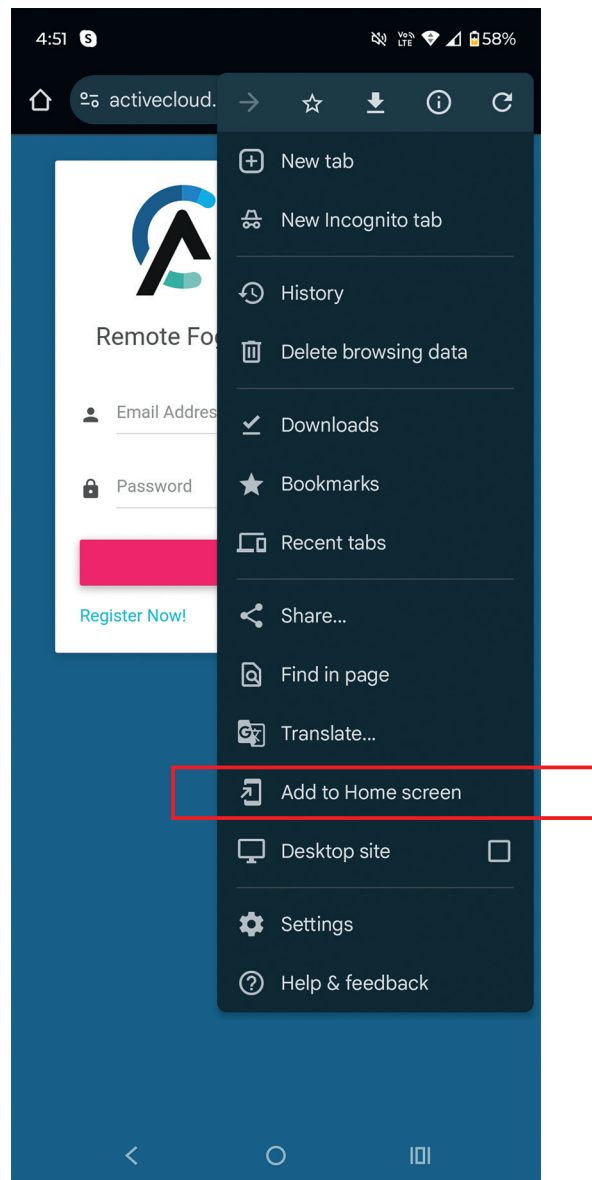
New firmware are developed and released on a regular basis to ensure the best performance and new functionality.

3.0 MOBILE SETUP

Note: The following steps may vary slightly depending on the browser used.
The example below is based on latest revision of Google Chrome on an Android device.

On your Android device, open the **browser**.
In the address bar, type the following address **Activecloud.cloud** to log in to the cloud application.





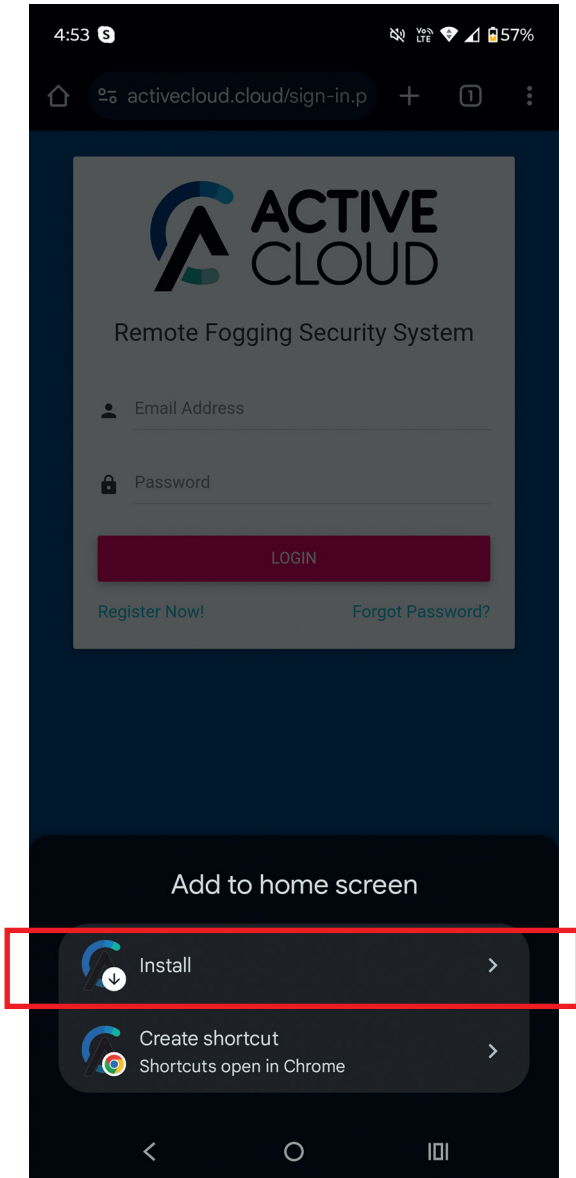
Open the Browser Menu, tap the **three-dot menu** (⋮) in the top-right corner of the browser.

In the dropdown menu, find and tap **"Add to Home screen"**.

A pop-up will appear with the default name of the web app.

You can **edit the name** if desired, then tap **"Install"**.

- A confirmation message will appear.
- Tap **"Install"** again to place the web app shortcut on your home screen.

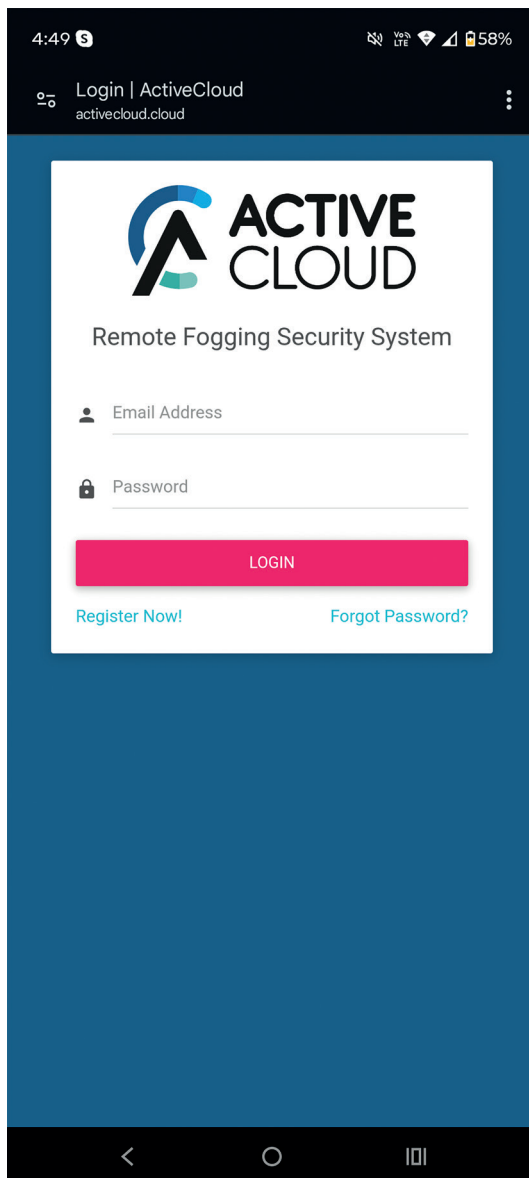


The web app icon will now appear on your home screen.



Click on the web app and fill in the required fields (username and password), and click on the "LOGIN" button. If you don't have an account, register a new account by clicking on the "Register Now!" link

Fill in the required fields (Last Name, First Name, Email Address, Password and Confirm Password) and click on the "SIGN UP" button. You will receive an email from ActiveCloud to activate your account. Follow the instructions, activate the account and login to the Cloud.



4:49 S

Yoh LTE 58%

Login | ActiveCloud
activecloud.cloud

ACTIVE CLOUD

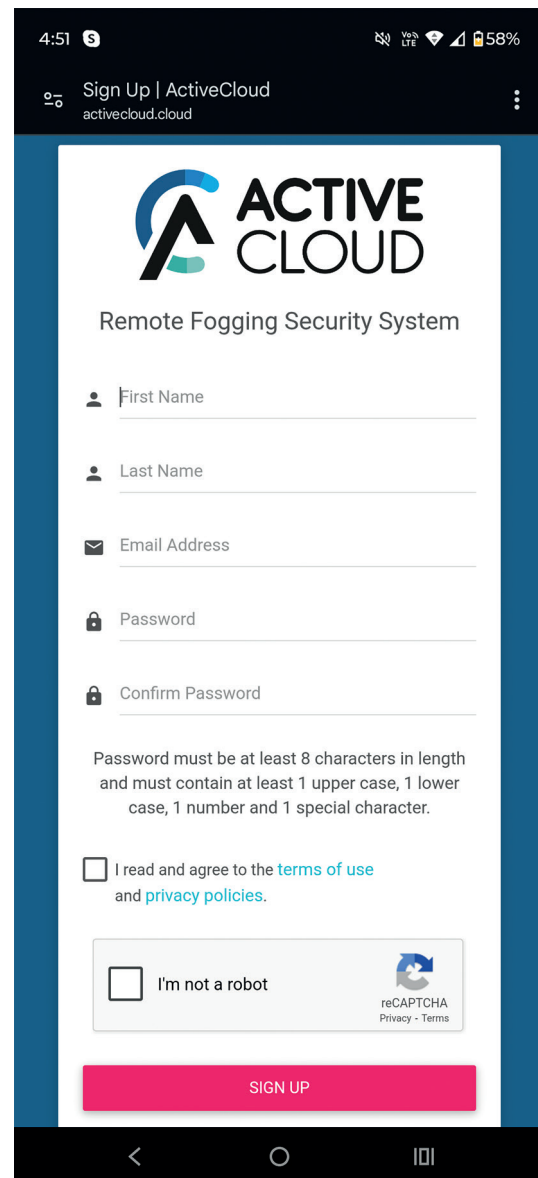
Remote Fogging Security System

Email Address

Password

LOGIN

[Register Now!](#) [Forgot Password?](#)



4:51 S

Yoh LTE 58%

Sign Up | ActiveCloud
activecloud.cloud

ACTIVE CLOUD

Remote Fogging Security System

First Name

Last Name

Email Address

Password

Confirm Password

Password must be at least 8 characters in length and must contain at least 1 upper case, 1 lower case, 1 number and 1 special character.

☐ I read and agree to the [terms of use](#) and [privacy policies](#).

☐ I'm not a robot

reCAPTCHA
Privacy - Terms

SIGN UP

ADVANCED BOARD CONFIGURATION

Active Cloud Board Configuration App v 1.2.2

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Active Cloud Board Configuration App V 1.2.2

The *Active Cloud Board Configuration* application version 1.2.2 allows configuring Ethernet and Wi-Fi network settings of the Active Cloud Board. If any previous release of the application is already installed in the system, please use normal control panel procedure to uninstall it.

The *Active Cloud Board* primary network interface is Ethernet and the board is factory configured to obtain an IP address automatically by DHCP. If the Ethernet cable is not plugged in and a Wi-Fi network has not been configured, the board starts in Access Point mode. Connect your PC to the Active Cloud Board Wi-Fi network:

- SSID name: *ActiveCloud-X* where *X* is the board serial number (e.g. *ActiveCloud-000202*).
- Password: the serial number followed by the authorization key (e.g. *000202ABCXYZ*).

Once the board is connected to LAN or Wi-Fi, run the *Active Cloud Board Configuration* application to configure the board. When starting the application automatically searches for all Active Cloud boards connected to the network (**Fig. 1a**). The found boards are listed in the left panel (**Fig. 1b**). Textboxes in the right panel shows serial number and firmware version of the selected board.

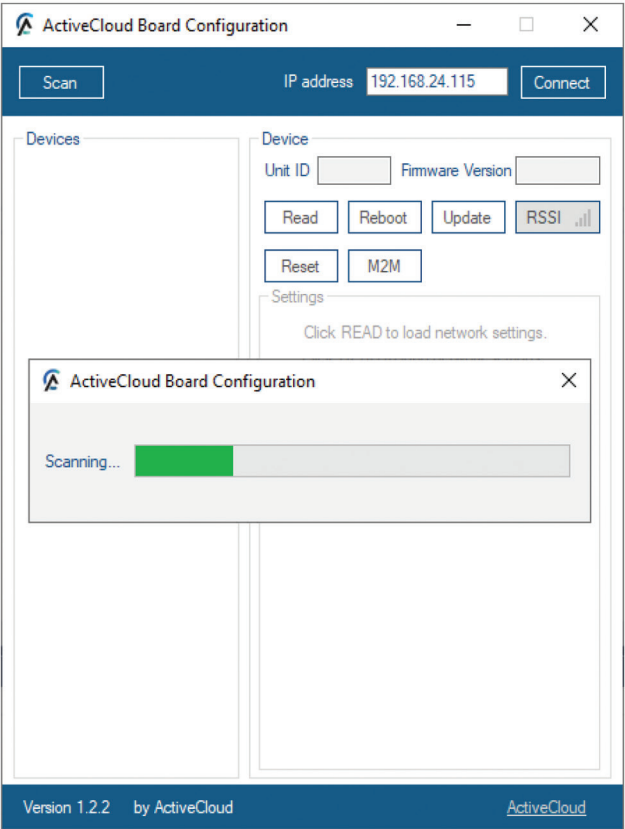


Figure 1a

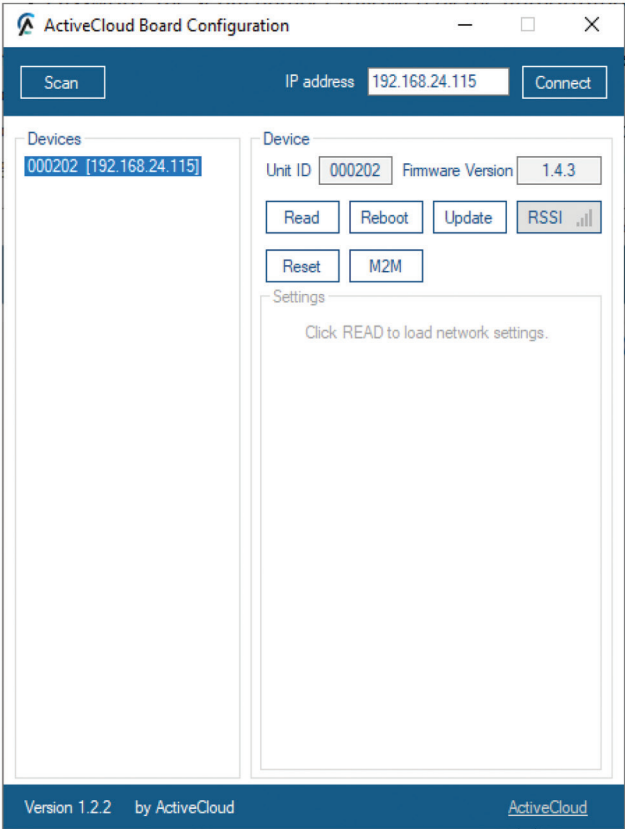


Figure 1b

If you already know the IP address of your board write it in the top-right IP address textbox and click on the *Connect* button. If you want to search again click on the top-left *Scan* button.

To reboot the board click on the *Reboot* button, enter the authorization key of your board and press OK.

To retrieve the current board settings click on the *Read* button, enter the ahtorization key of your board and press OK (**Fig. 2a**). Tabs on the right show curent board settings (**Fig. 2b**).

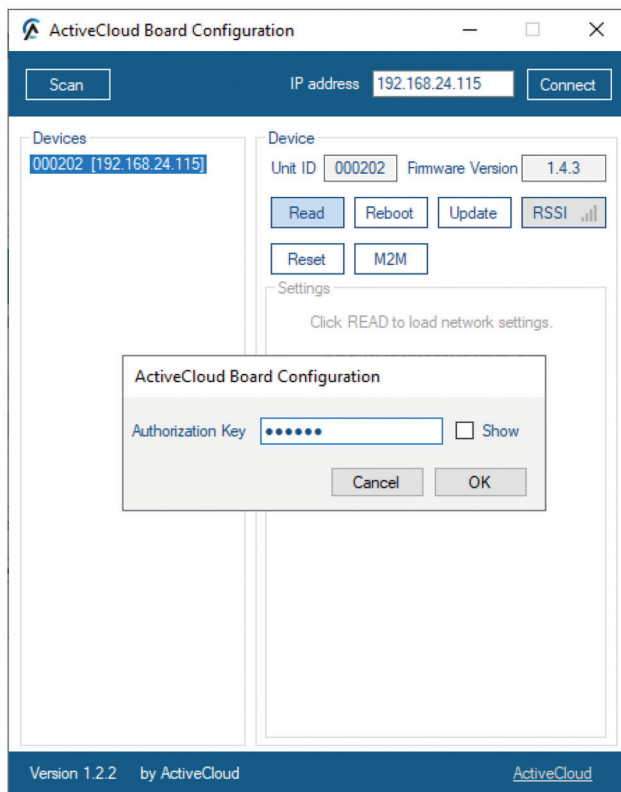


Figure 2a



Figure 2b

In the Ethernet tab, select the Obtain an IP address automatically option to let the board to obtain IP address automatically from the router by DHCP.

Select Use the following IP address to configure the network:
enter IP address, Netmask, Gateway and DNS server of your network (**Fig. 3a**).

Click on the Save button to save the settings: the board will be rebooted. Press OK on the message box to confirm (**Fig. 3b**).

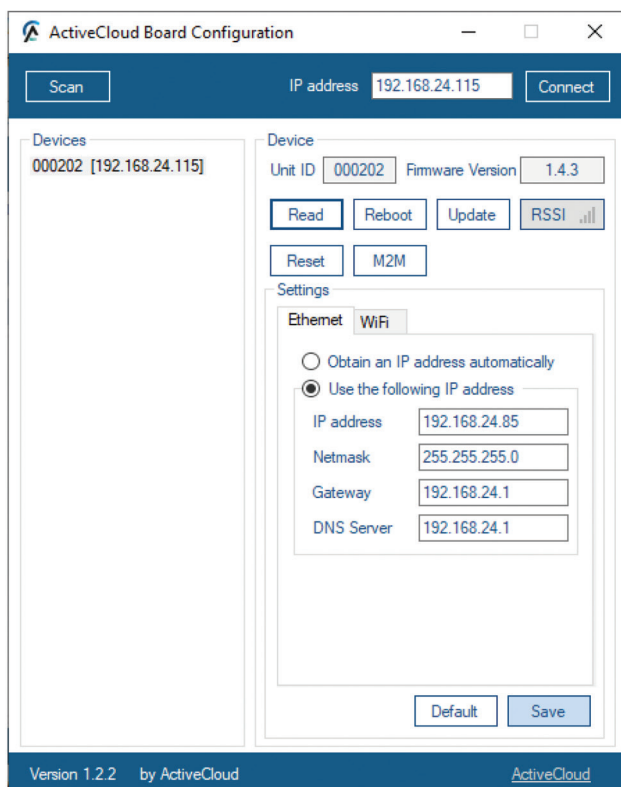


Figure 3a

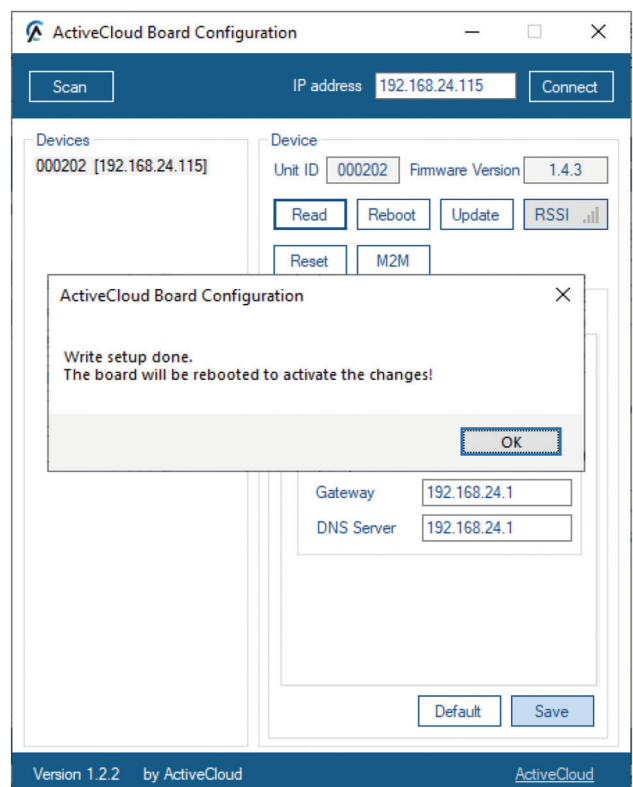


Figure 3b

In the *WiFi* tab, enter SSID and password of your WiFi network (**Fig. 4a**) or select it from the list of WiFi networks automatically discovered by the board and listed in the drop down menu (available only for firmware version 1.2.3 or later). Select *Obtain an IP address automatically* to let the board to obtain IP address from the router by DHCP or select *Use the following IP address* to configure the network: enter *IP address*, *Netmask*, *Gateway* and *DNS* server of your network. Uncheck *Enable* if you want to completely disable the WiFi interface of the board. Click on the *Save* button to save the settings and OK on the message box to confirm: the board will be rebooted and it will apply the new settings.

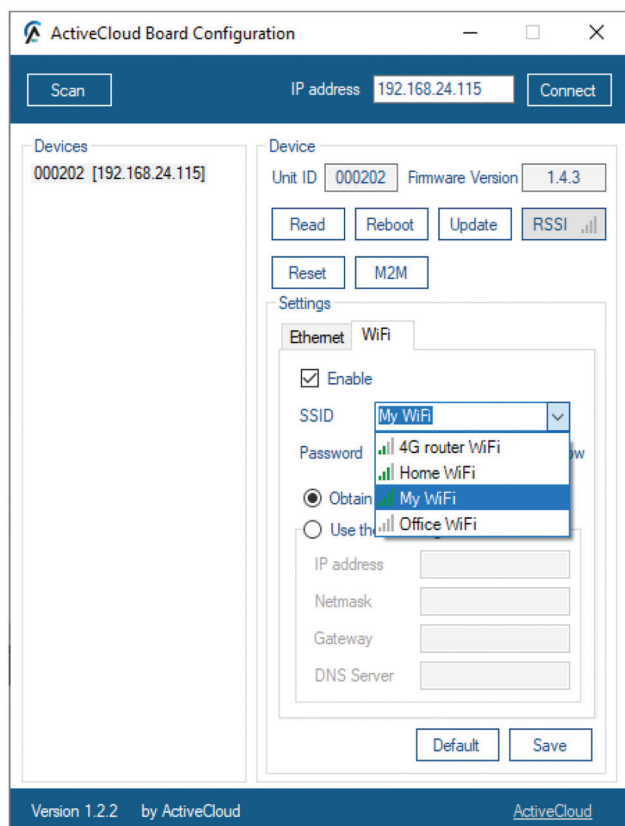


Figure 4a

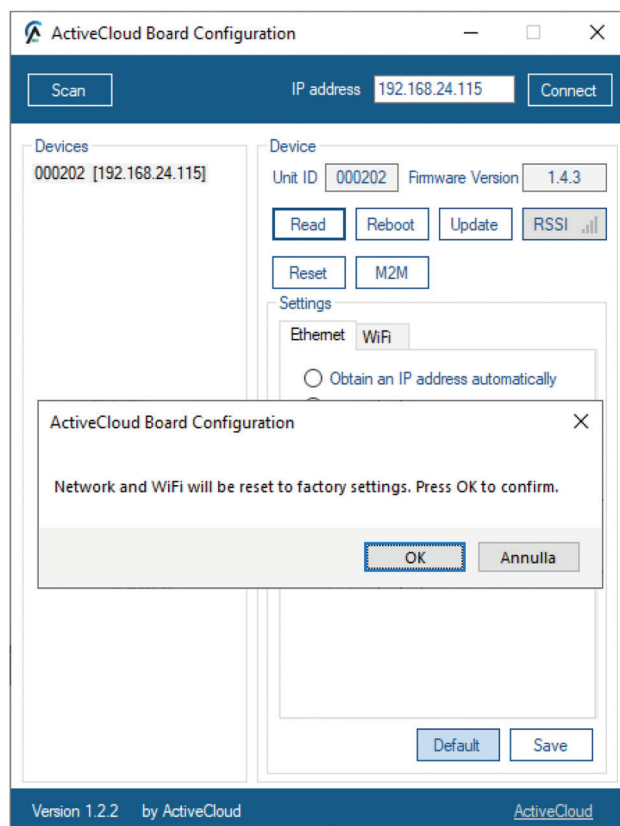


Figure 4b

To reset the board to default network settings click on the *Default* button and press OK in the message box to confirm (**Fig. 4b**).

If connected to WiFi, to check WiFi network signal strength click on the *RSSI* button (available only for firmware version 1.2.3 or later): the *RSSI* button shows the network signal strength in decibel, updated every second (**Fig 5a**).

Important notice:

on **5G routers and mobile phones** if the SSID is not listed verify that the "2.4Ghz band selected" option is activated. When 5G routers and Android 5G mobile phones activate as default 5Ghz band, usually also a second "legacy" SSID at 2.4Ghz is generated with same SSID name plus "_legacy" or "_2.4Ghz". ActiveCloud boards are able to connect to 2.4Ghz WiFi band only.

To reset Cloud credentials (available only for firmware version 1.2.3 or later) click on the *Reset* button, enter the authorization key of the board, and press OK in the message box to confirm (**Fig 5b**): if registered to the Cloud, the board resets its Cloud credentials and, after rebooting, is ready to be registered again.

Please note that this command only affects the board and do not unregister the board from the Cloud: remove the board from the Cloud before registering it again.

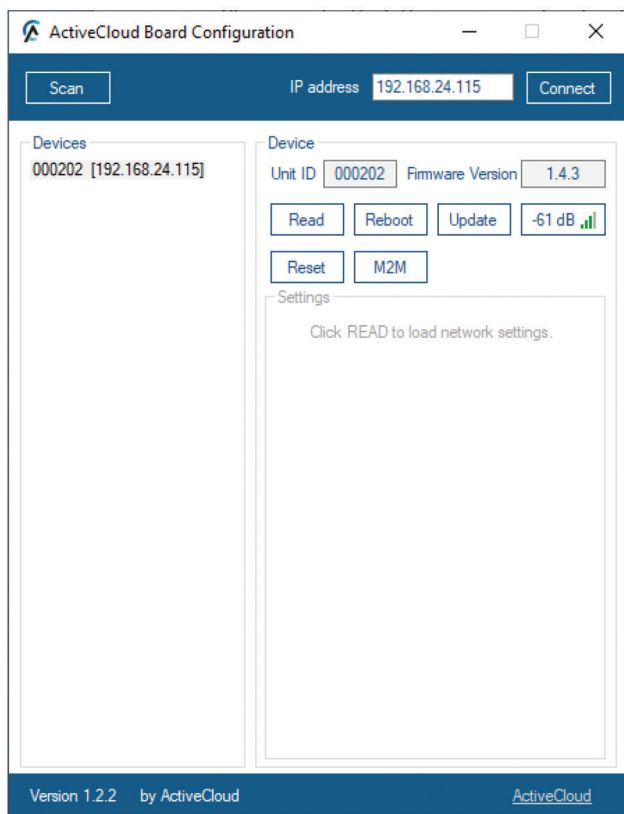


Figure 5a

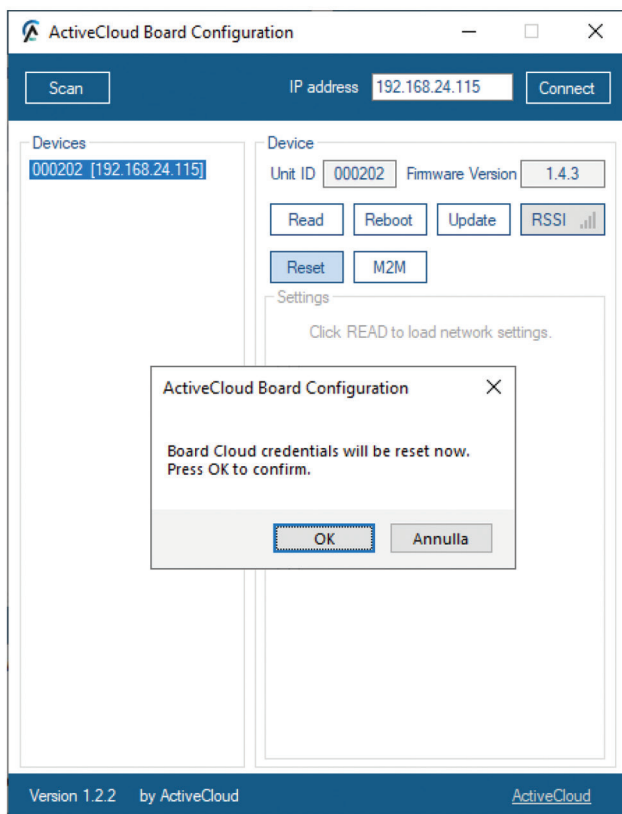


Figure 5b

To update the board firmware click on the *Update* button, enter the authorization key of the board, browse the PC and select the firmware (file with extension .acb). Check the release note (**Fig. 6a**) and press OK to confirm to start uploading (**Fig. 6b**).

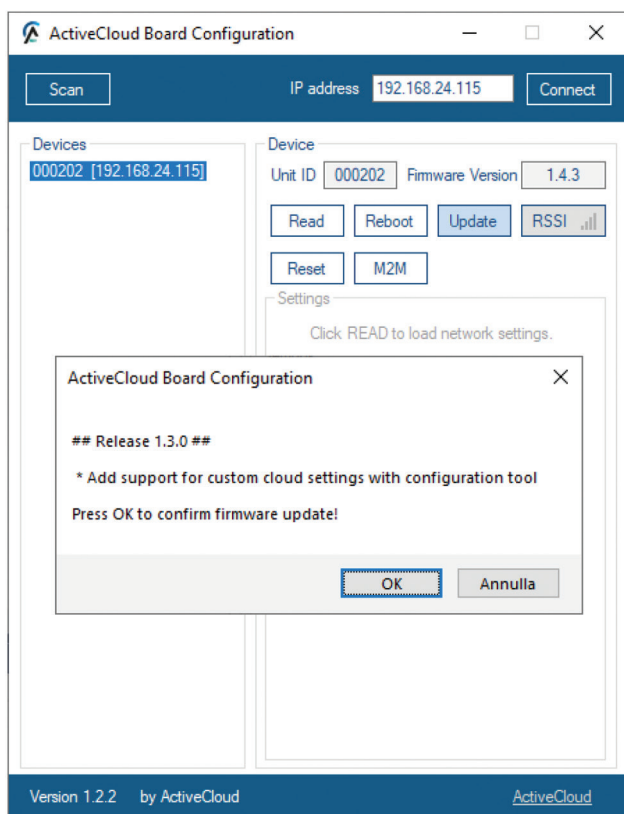


Figure 6a

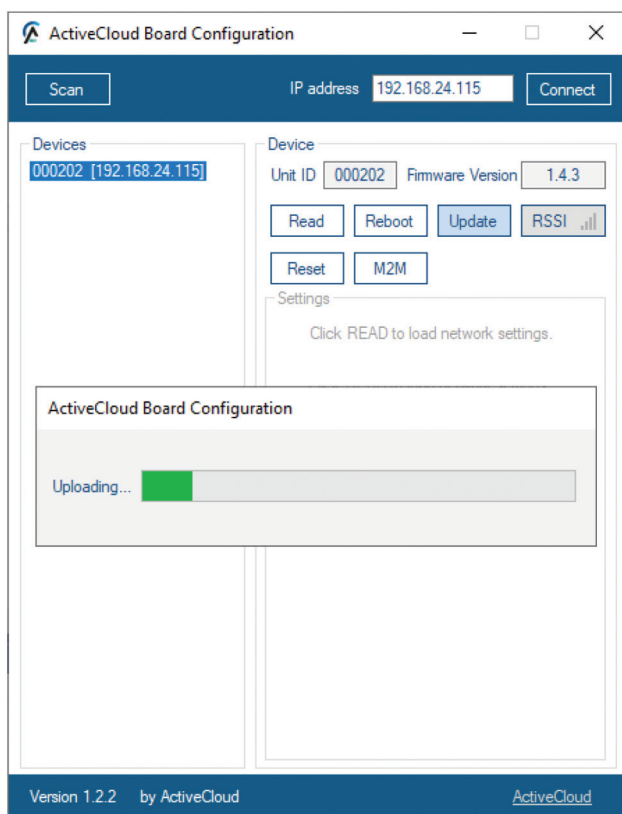


Figure 6b

ActiveCloud board is factory-equipped with default server address and port for the ActiveCloud Cloud (<https://activecloud.cloud>): to configure the board to use a different server click on the M2M button (available only for firmware version 1.3.0 or later). In the Custom Server Settings window enter Install Server address and port, Operative Server address and port. Click on the *Load* button to browse the PC file system and select the server CA certificate used by the device for server authentication. Click on the *Save* button to save settings (**Fig 7a**). To apply the new settings press OK on the message box (**Fig 7b**), close the Custom Server Settings window and reboot the board with the *Reboot* button.

To read current custom server settings click on the *Read* button in the Custom Server Settings window. To reset the board to default Cloud server settings click on the *Default* button and press OK to confirm. Close the Custom Server Settings window and reboot the board to apply the new settings.

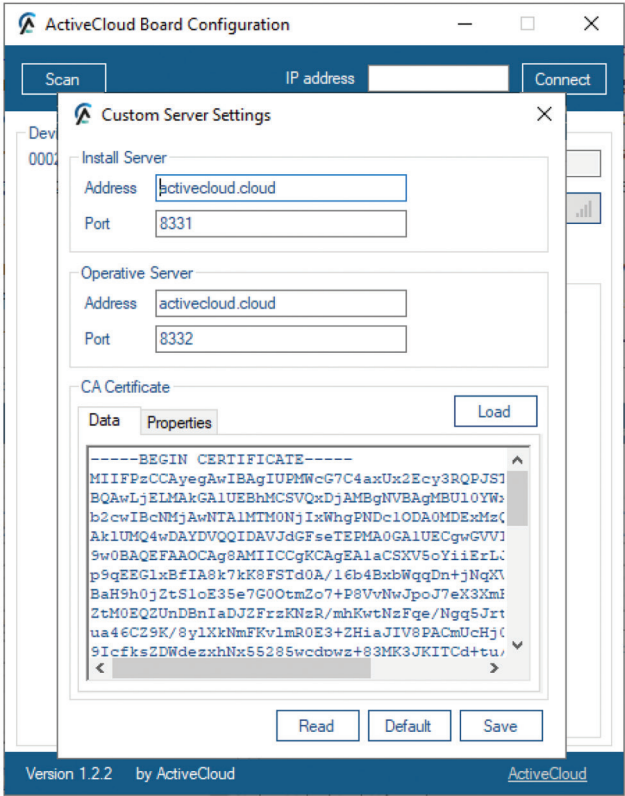


Figure 7a

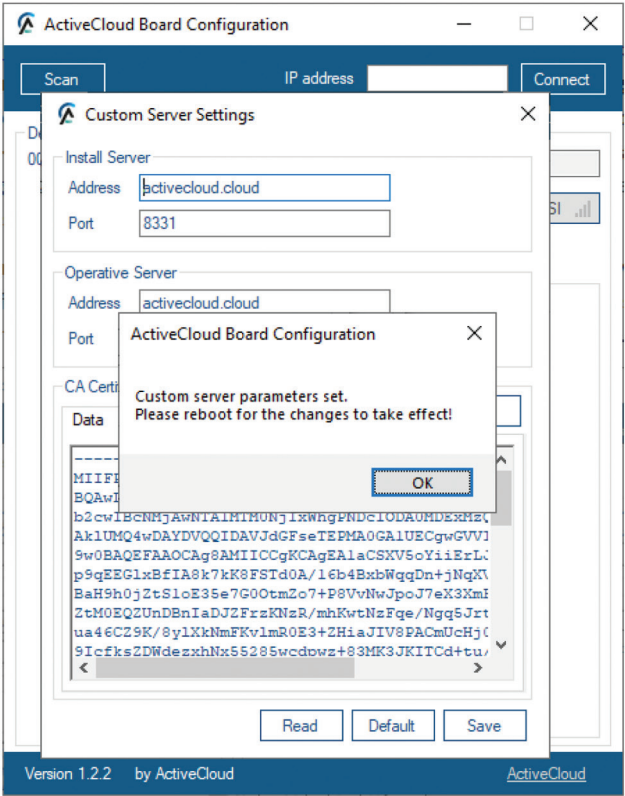


Figure 7b

How to configure ActiveCloud using an Ethernet cable connecting PC and board

1. Set the default static IP address on your ActiveCloud board:

- Power off the unit
- close jumper J2 on cloud board to override Ethernet configuration with Static IP settings: IP: 192.168.2.250, Mask: 255.255.255.0, Gateway/DNS: 192.168.2.1

2. Set a static IP address on your Microsoft Windows based PC:

- Click Start Menu > Control Panel > Network and Internet > Network and Sharing Center.
- Click Change adapter settings.
- Right-click on Local Area Connection.
- Click Properties.
- Select Internet Protocol Version 4 (TCP/IPv4).
- Click Properties.
- Select Use the following IP address.
- Enter IP address, subnet mask and gateway (IP address must be in the same subnet as the ActiveCloud board):
- Static IP: 192.168.2.10, Mask: 255.255.255.0, Gateway: 192.168.2.1
- Click OK.

3. Connect PC and board with the crossover Ethernet cable:

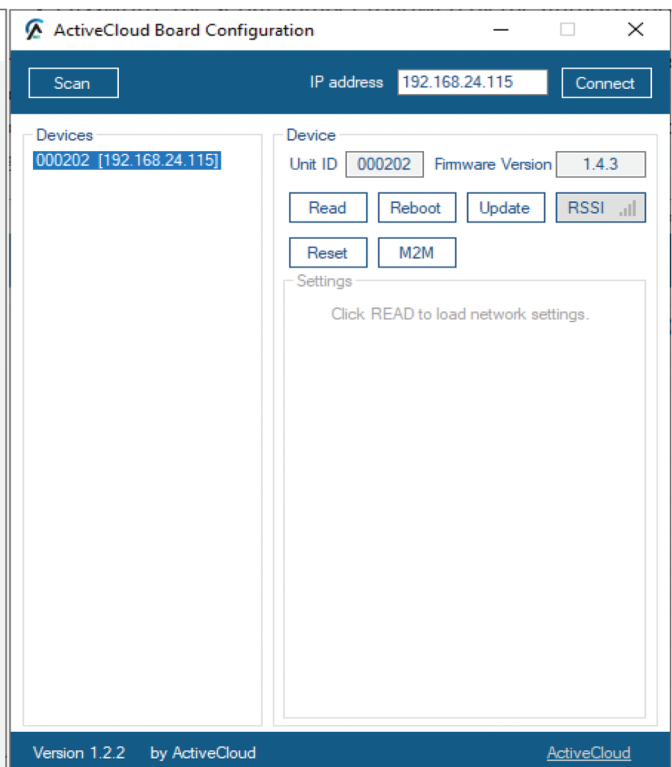
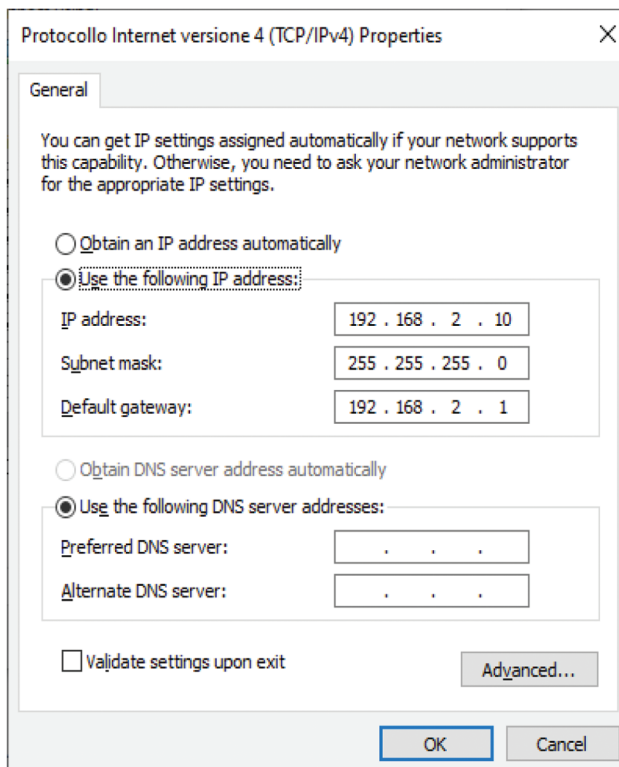
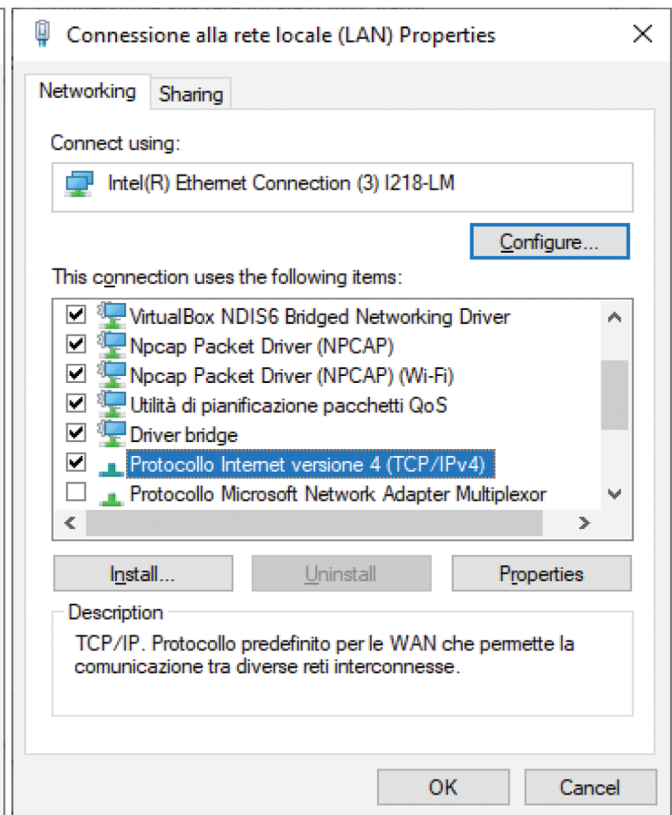
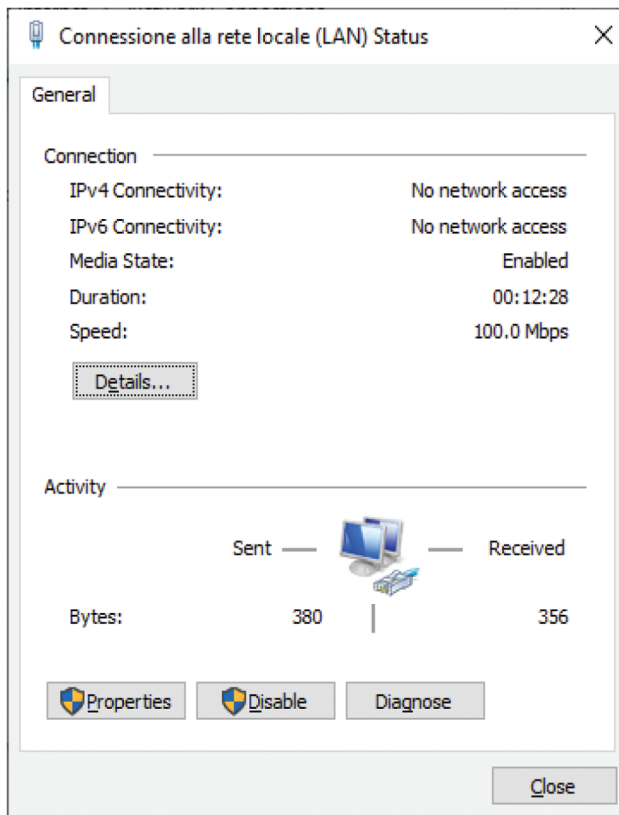
- Plug an Ethernet cable into the ActiveCloud board
- Plug the other end of the Ethernet cable into your computer.

4. Configure the ActiveCloud board:

- Switch on the Fogging machine.
- Run the Windows "ActiveCloud Board Configuration" tool.
- After the automatic scan, if everything is ok, the board is listed in the left panel of the tool.
- Configure the board in the usual way.

5. Restart the machine for the changes to take effect:

- Switch off the unit.
- Remove the jumper from J2: J2 must be left open otherwise static IP settings are applied.
- Switch on the unit.



1.1 Jumper Settings

Description	J1	J2	J3	J4	J5
Use saved configuration (normal mode)	O	O	O	O	O
Override Ethernet configuration with Static IP settings	O	X	O	O	O
Override Ethernet configuration with DHCP mode	O	O	X	O	O
Override WiFi configuration with Access Point mode	O	O	O	X	O
Reset network configuration (use default settings)	O	X	X	O	O
Reset cloud registration data	O	X	X	X	O
Reset firmware, configuration , data to factory settings(*)	X	-	-	-	-

O = jumper open, X = jumper closed

Default network settings: Ethernet in DHCP mode and WiFi in Access Point mode.

Static IP: 192.168.2.250 Mask: 255.255.255.0 Gateway/DNS: 192.168.2.1

Note: Ethernet cable presence will always disable WiFi, regardless of jumper settings.

(*) Factory reset is initiated at power up if J1 is closed for at least 5 seconds. Verify original firmware revision and eventually follow new referring blinks patterns The other jumper settings still apply. Jumper J5 is not used and should be left open.

1.2 Blink Patterns for Firmware rev. 1.1.0

Description	Period	ON	OFF
Connected and registered to cloud	-	∞	0
Connected to cloud, not registered	5.0 s	4.5 s	0.5 s
No network connection (both WiFi and Ethernet offline)	2.5 s	0.5 s	2.0 s
Not connected to cloud (server offline or unreachable or access denied)	1.0 s	0.5 s	0.5 s
Not communicating with main board (serial offline)	0.5 s	0.1 s	0.4 s
Missing configuration data (hardware failure)	0.2 s	0.02 s	0.18 s
Test mode requested	0.2 s	0.1 s	0.1 s

1.3 Blink Patterns for Firmware rev. > 1.1.0

Description	Length	PULSES	PAUSE
Connected and registered to cloud	∞	-	0
Connected to cloud, not registered	1.5 s	1	1.5 s
No network connection (both WiFi and Ethernet offline)	0.25 s	2	2.0 s
Not connected to cloud (server offline or unreachable or access denied)	0.25 s	3	2.0 s
Not communicating with main board (serial offline)	0.25 s	4	2.0 s
Missing configuration data (hardware failure)	0.25 s	10	2.0 s
Test mode requested	0.1 s	1	0

1.4 RJ 45 Blink Patterns

Green (blinking): activity

Yellow: 10/100Mbit/s, on=100 Mbit/s, off=10Mbit/s

1.5 Important Notice :

During card registration , the ActiveCloud ID is electronically linked to the serial ID of the SFD (Security Fog Device) and specific referring data are stored in the non volatile memory of the card. For this reason the card will be enabled to operate ONLY if connected to THAT specific unit and cannot be moved on other device without being unregistered by the owner before new registration. For security reason the unregister procedure should be executed only while unit is online. For same reason is suggested to unregister and register again the ActiveCloud board even on the eventually firmware upgrade of the SFD, following this steps :

1. Download the ActiveCloud Unit Log for possible future reference
2. Take note of the actual settings (Alarms , Timers , etc.)
3. Unregister the card (Owner role needed)
4. Upgrade the SFD firmware
5. Register again the card on ActiveCloud (Owner role assigned)
6. Set original settings on Activecloud web site.

Annex C

Troubleshooting

Following the pattern of DL2 **diagnostic led** on ActiveCloud board it is possible to find and solve most of the issues. DL2 is a RED SMD LED positioned on ActiveCloud top left.

2 Blinks

The network connection is missing. The local Router is not reachable by ActiveCloud board. Sometimes LAN policies doesn't authorize routers to assign a random IP to devices (DHCP) , verify with local LAN manager if ActiveCloud board should be set before connection with a specific IP address.

If the selected connection is "Wired" using RJ45 cable , verify that:

1. Green and Yellow LED installed on the body of RJ45 connector are both on. (Usually yellow led fix and green led blinking, see Annex B - 1.4).
2. All ethernet Hubs and Switch in the middle are correctly powered on and working.
3. Connecting a PC to the same ethernet cable the site Activecloud.cloud is reachable.

If the wireless connection is "Wireless" using WiFi antenna, verify that:

1. The ActiveCloud antenna is correctly connected to the board.
2. The selected SSID is the standard 2.4Ghz connection (No 5G).
3. To be in the range of router capabilities.

3 Blinks

The network connection with router is established but ActiveCloud site is still not accessible. Verify with local LAN manager if the router's security policy (firewall) doesn't lock the dedicated standard cloud ports 8331 and port 8332. Both ports need to be unlocked.

4 Blinks

There is a connection error or timeout on the link between ActiveCloud Board and the Main PCB board of the Security Fogging Device. Most of the time this issue depends on the main PCB serial port not active or wrong COM port (should be COM1).

