EVAC Control

User Manual

EVAC CONTROL PLATFORM

LDA audioTech

INDICE

INDICE DE ANEXOS

1 INTRODUCTION

Evac Control is a solution based on LDA Audio Tech's EVAC EcoSystem platform that extends the capabilities of the EN54-16 system by offering additional features, in addition to the online connectivity offered by the Evac Cloud platform.

Evac Control offers a fully Web-based graphical interface, enabling distributed control, user management and advanced automation of the NEO+ public address and voice evacuation system. Designed for environments that require greater visibility and control, Evac Control allows you to act both locally and remotely, with a fully customizable and usable user experience.

It uses the Evac Core certified hardware platform, included in the NEO+ certificate as a compatible accessory with the system, including power from the EN54-4 charger, fault monitoring system and the highest standards of reliability.

2 INPUTS AND OUTPUTS

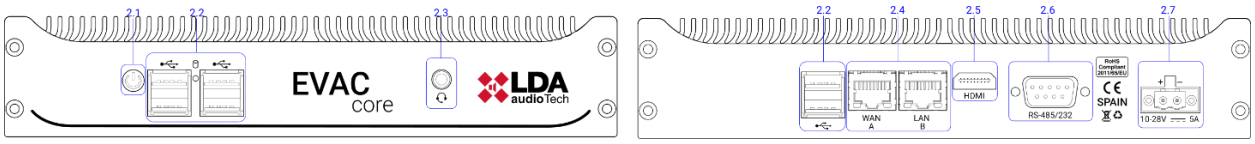

Figure 1. Front and back panels of the EVAC Control device.

2.1 Power button

Turn the device on and off. Note that the equipment turns on automatically when connected to the electrical current.

2.2 USB Ports

Allows the connection of standard input and output peripherals, such as a keyboard or storage drive.

2.3 Audio input and output port

3.5mm female **CTIA** type jack connector.

2.4 Ethernet Ports

Two ethernet ports, one for connection to the Internet with the **WAN** label and one for connection to **EN54-16** systems with the **LAN** label.

2.5 HDMI port

Video output of the equipment.

2.6 RS-485/232 port

9-pin **Sub-D** type connector for **RS-485** or **RS-232** communications.

NOTE: by default it is configured as **RS-485**, for the **RS-232 configuration** it has to be ordered at the factory.

2.7 Power input

2-pin **Euroblock** type connector.

3 INSTALLATION

3.1 Rack mounting

Along with the **EVAC Control** device, the necessary parts for its mounting and rack installation are supplied:

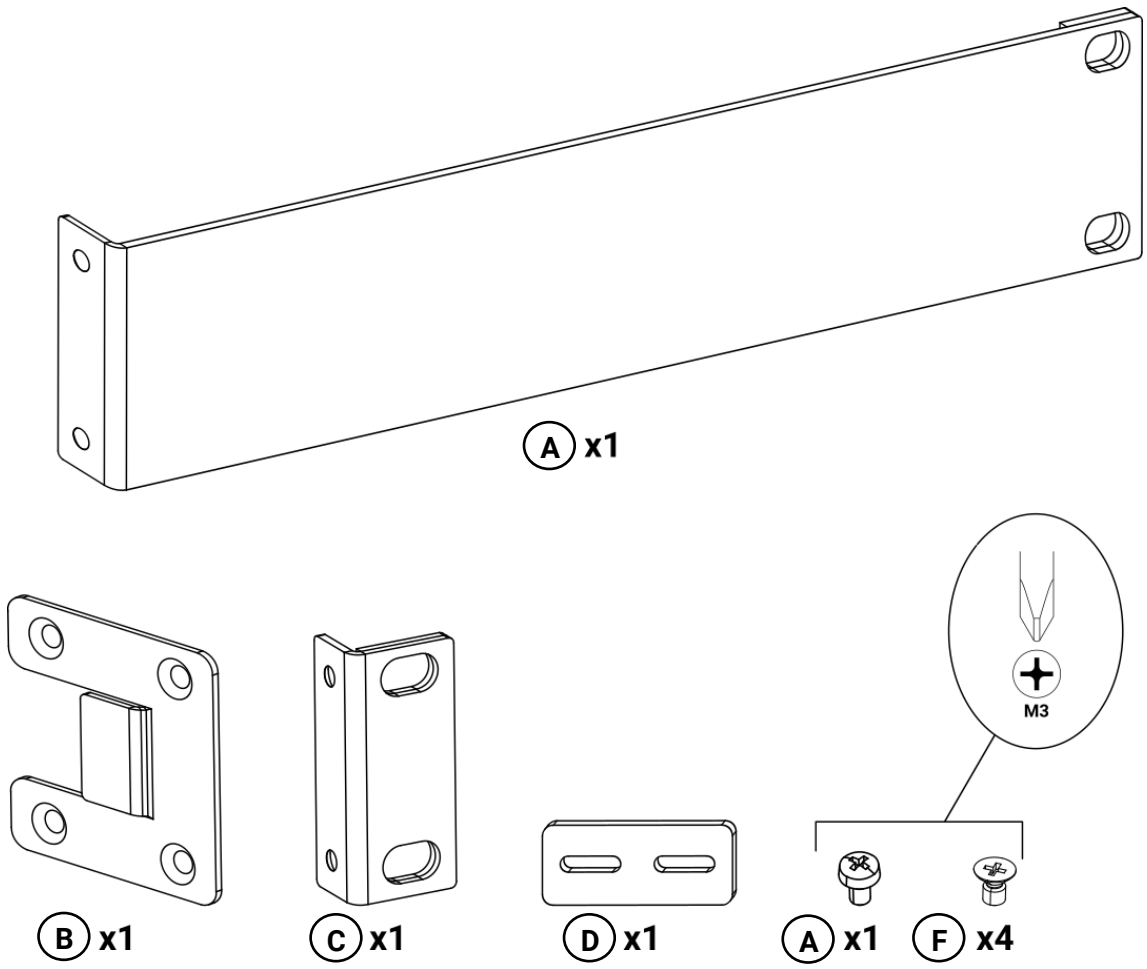

Figure 2. Parts supplied for rack mounting.

A. 1 × Long fixing bracket.
B. 1 × Side Binding Plate.
C. 2 × Short fixing bracket.
D. 1 × Rear Junction Plate.
E. 1 × M3 pan head screw.
F. 4 × M3 countersunk screw.

3.1.1 Single-device rack mounting

For rack mounting of a single device, the following parts will be required:

A. 1 × Long fixing bracket.
C. 1 × Short fixing bracket.
F. 4 × M3 countersunk screw.

Mounting the short fixing bracket using two countersunk screws:

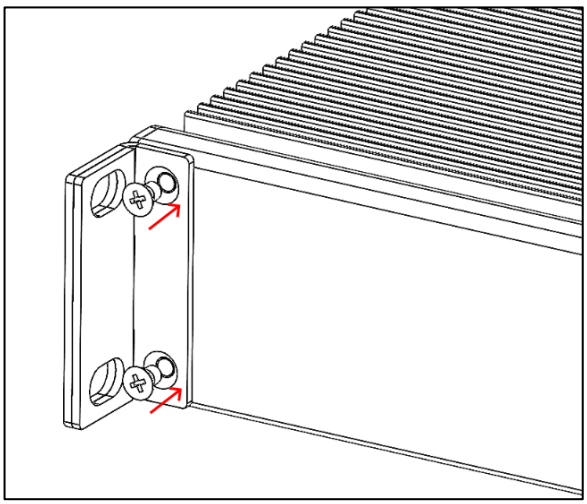

Figure 3. Short ear assembly.

Mounting the long fixing bracket using two countersunk screws:

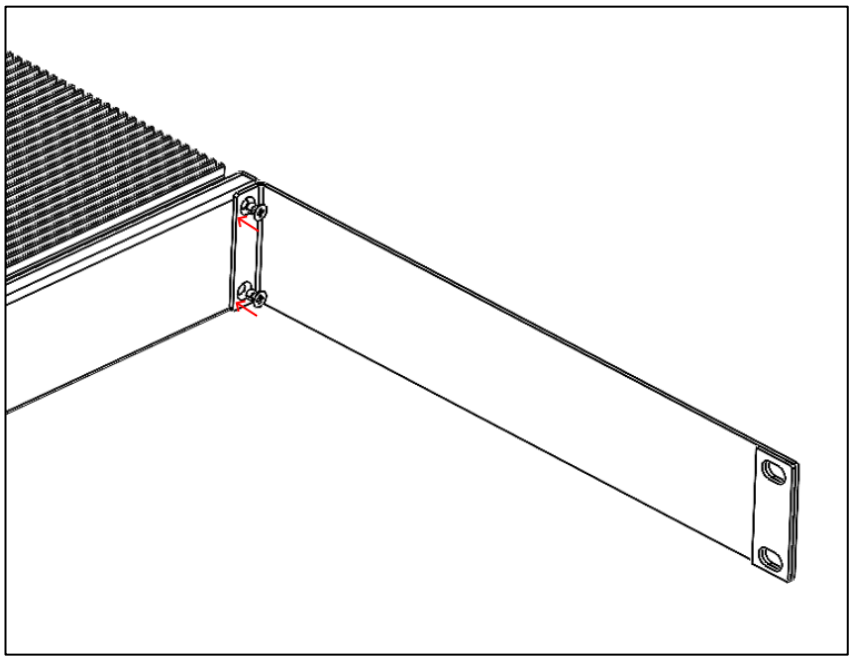

Figure 4. Long ear assembly.

Rack-ready device:

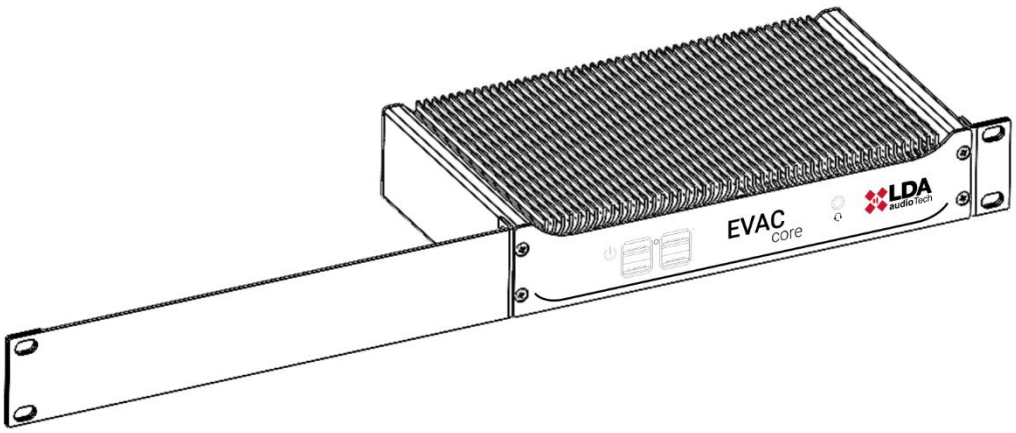

Figure 5. Rackmount of a single EVAC Core device.

3.1.2 Joint assembly of two devices

The following parts shall be used for the joint rack mounting of two devices:

B. 2 × Side Binding Plate.
C. 2 × Short fixing bracket.
D. 1 × Rear Junction Plate.
E. 2 × M3 pan head screw.
F. 8 × M3 countersunk screw.

Fastening the short fixing bracket using two countersunk screws:

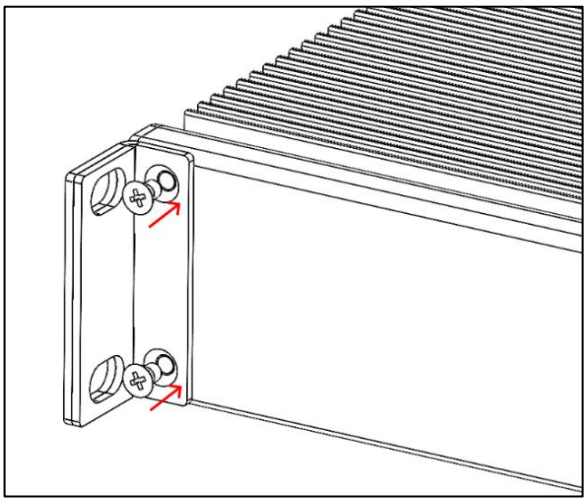

Figure 6. Short ear support.

Clamping the side joint plate using two countersunk screws:

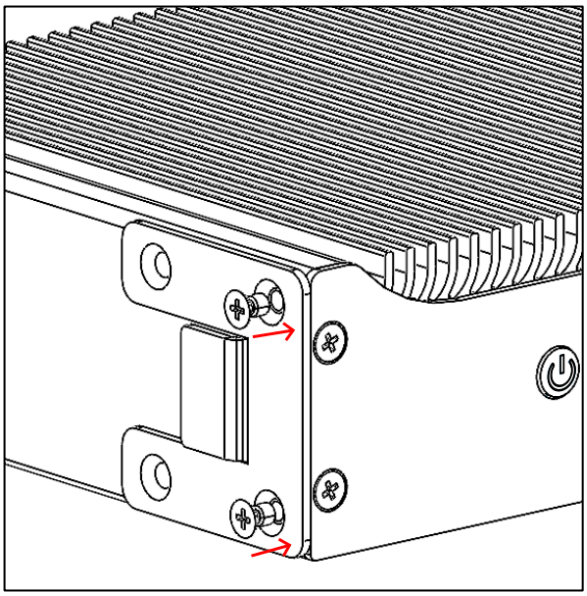

Figure 7. Side plate fastening.

On the second **EVAC Core** device, the short clamping bracket and the side joint plate shall be mounted on the opposite sides to those of the first device. In addition, the side plate must be placed with its ends pointing in the opposite direction, so that the union of both devices is stabilized by the insertion of both tabs between them:

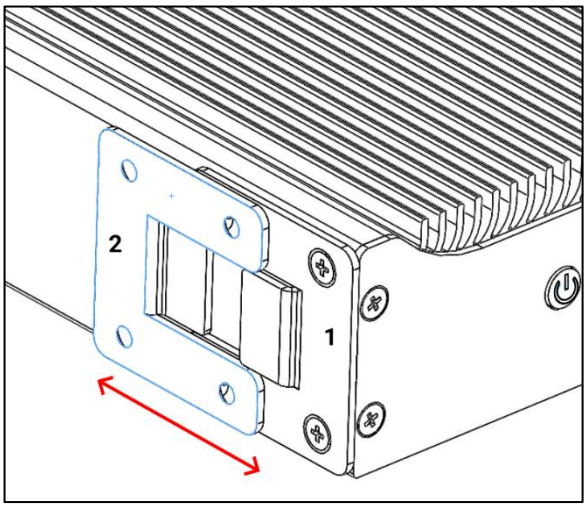

Figure 8. Insertion of the side plate of both devices.

Once both devices have been fixed by means of the side joint plate and to reinforce it, the rear joint plate will be fastened using the pan screws of both devices:

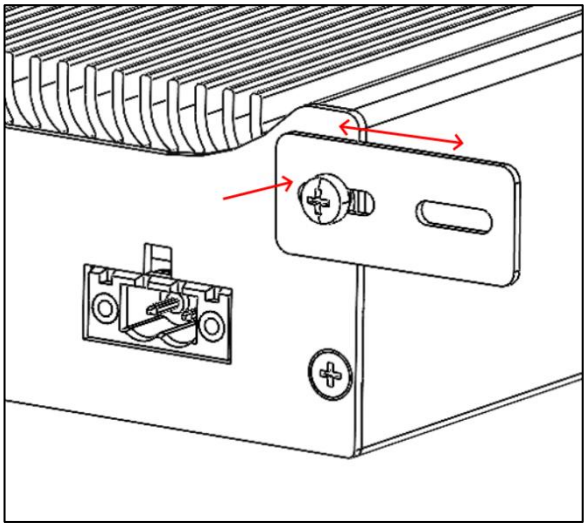

Figure 9. Rear plate fastening.

Schematic summary of the assembly of two **EVAC Core** devices with all the parts after which both will be ready for rack installation:

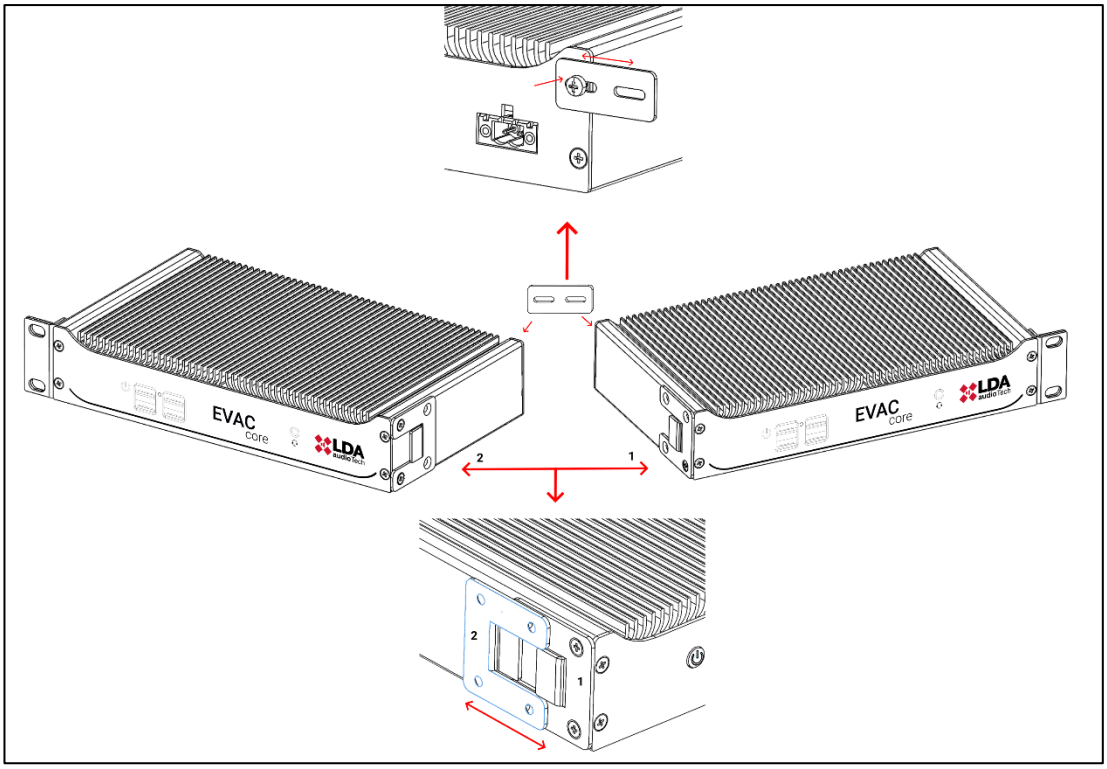

Figure 10. Scheme of joint rack mounting of two EVAC Core devices.

3.2 Device connection

For the correct connection between EVAC Control and a NEO/NEO+ system, an Ethernet cable must be used and connected between the EVAC Control LAN port and the NEO/NEO+ control data port.

- **WAN Port:** This is the port intended for connection to the Internet, allowing EVAC Control to access cloud services and establish remote communication.
- **LAN Port:** This port connects EVAC Control to the NEO/NEO+ system via the X port of the connection bay, used exclusively for control data.

NOTE: The WAN and LAN ports should not be on the same network, as this could generate a network loop (storm), affecting the stability and operation of the system.

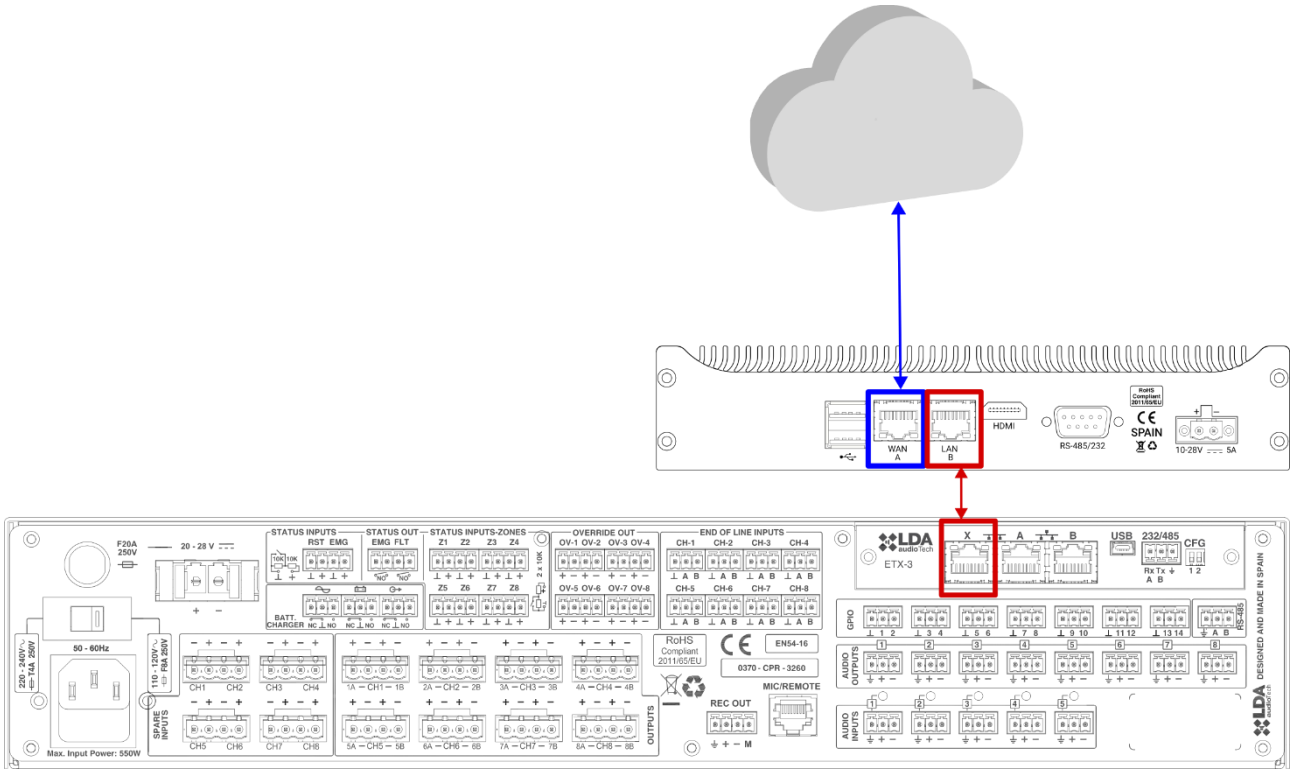

Figure 11. Device connection

4 HDMI CONSOLE

Plugging a monitor into the **HDMI** port will display the system console where you can display messages regarding:

- **Starting** or **ending** the **EVAC Control** service, both at startup and at its end after a shutdown or restart of the device or service.
- **Device identifier**. Value that will present the following format:

  EVACControl-aabbcc

- Where "***aabbcc"*** is a six-character alphanumeric string that can contain both numbers and lowercase letters. An example of a possible device identifier could be:

  EVACControl-645595

- **Status** and **configuration** of **LAN** and **WAN** network interfaces, updating the values when any changes occur in them.
- **Device connection** status with the **LDA Audio Tech cloud**.
- Indication of whether the last boot occurred by activation of the **watchdog** of the EVAC Control device.

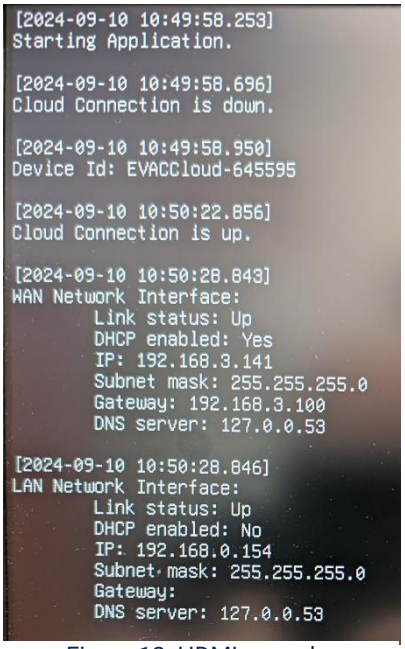

Figure 12. HDMI console.

5 EVAC CORE WEBSITE

5.1 Access

To access the web application, it will be necessary to have a computer with an up-to-date web browser and connected on the same local network as the **LAN** port of the **EVAC Control** device. In the browser's address bar, enter the following device URL, which will have the following format:

https://evaccontrol-aabbcc.local

The string "***evaccontrol-aabbcc"*** corresponds to the device identifier, in which, as described in the previous point, "***aabbcc"*** is an alphanumeric string of six characters that can contain both numbers and lowercase letters. A possible URL could be:

https://evaccontrol-645595.local

It is also possible to use the IP address of the **LAN** interface. Out of the box, this address is set to "**192.168.0.253**":

https://192.168.0.253

Once the URL is entered in the browser, you will be taken directly to the EVAC Control device's local web login page. This page is the gateway for device configuration and management.

5.2 Login

Once you access the EVAC Control website, the first page shown is the login page. On this page, you must enter the credentials provided, which include the username and password assigned to access the device settings (see section 5.3.3(c).1 Users).

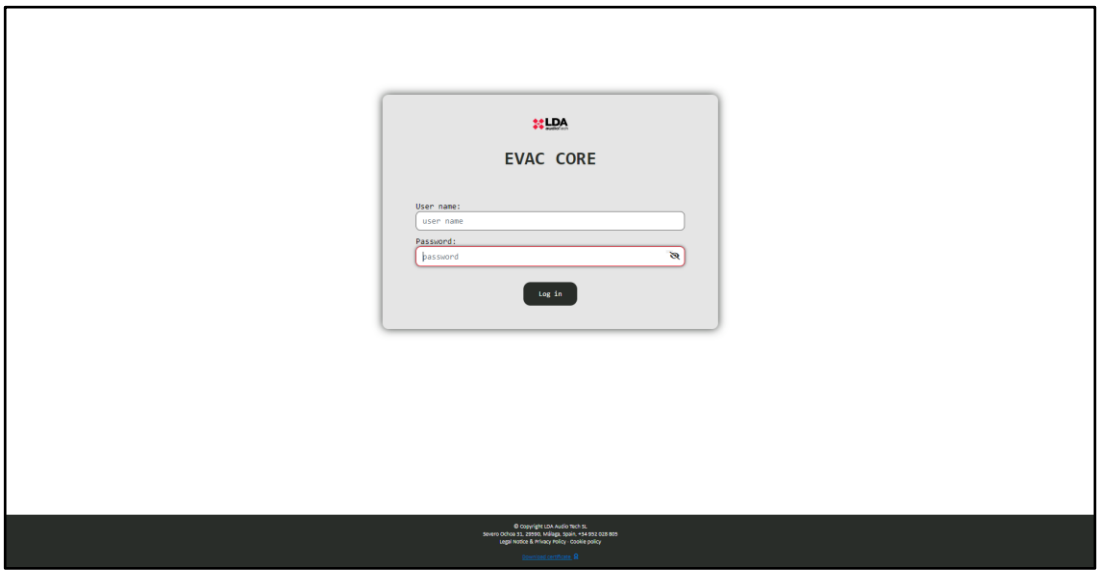

Figure 13. Login page.

The system comes factory configured with an access account with the following credentials:

- Username: **core**
- Password: **G2BepK2Hj%mcKY**

5.3 Content distribution

Once logged in, you access the main page of the EVAC Control, where you can distinguish three main zones.

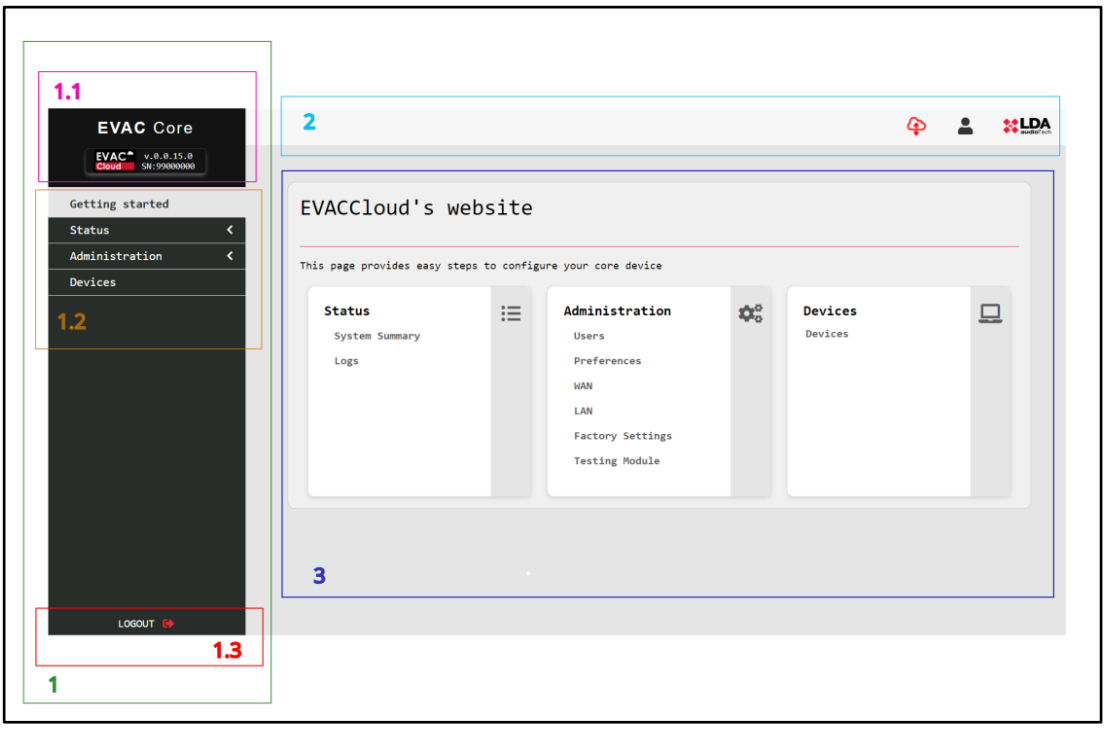

Figure 14. Content distribution.

1. Side menu.
    1.1. Header.
    1.2. Drop-down menu.
    1.3. Logout.
2. Top bar.
3. Content.

5.3.1 Side menu

(a) Header

Located in the upper left, it shows the main parameters that identify the device; **Model**, **application version** and **serial number**:

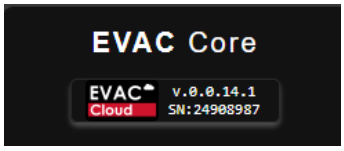

Figure 15. Side menu header.

- **Device model:** In this case it is an **EVAC Control model**.
- **Device Version:** The number of **software version** that is running on the device.
- **Serial number:** This value is a unique identifier, which will be necessary if you contact the technical support department of **LDA Audio Tech**.

(b) Drop-down menu

Secondly, there is the drop-down menu, which organizes the available screens into main groups and subgroups.

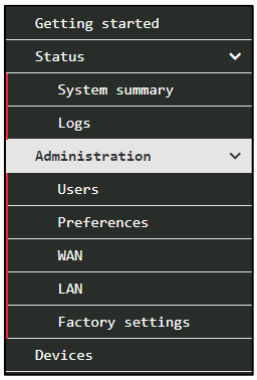

Figure 16. Side drop-down menu.

(c) Logging Out

Thirdly, within the side menu, there is the button to log out of the user.

Figure 17. Sign-out button.

5.3.2 Top Bar

The top bar displays, on its far right, information about the LDA Audio Tech cloud connection status, basic information and user session control functions.

Figure 18. Top bar.

(a) LDA Audio Tech Cloud Connection Status

This icon shows the **status of the device's connection to the LDA Audio Tech cloud**. If the **EVAC Control** device is successfully connected to the Internet through its **WAN** interface and has a subscription enabled that allows access to remote monitoring services, the icon will appear green indicating that the connection is active. Otherwise, the icon will appear red.

Figure 20 Active connection to the LDA Audio Tech cloud.

Figure 19. Non-active connection to the LDA Audio Tech cloud.

(b) User Panel

To the right of the cloud connection status indicator, there is an icon that, when clicked, displays a small window that offers information and basic functions about the logged-in user's account:

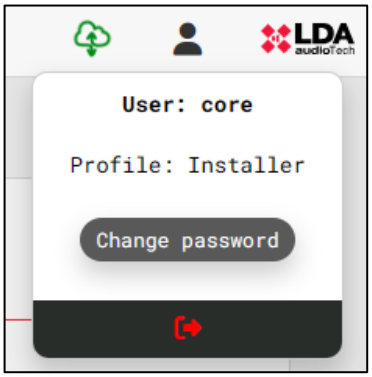

Figure 21. User information drop-down menu.

- **User:** Displays the name of the user who is logged in.
- **Profile:** Displays the profile corresponding to the user.
- **Change password:** Allows the user to change their current password to a new one. Only local users can change their password to access the device's local website. Users who connect to the web via the cloud using remote management applications cannot change their credentials on the local web as these are managed through the **LDA Audio Tech cloud**.

Figure 22. Login user password change window.

- **Logout**: Ends the current session in the **EVAC Control** web application, returning to the authentication page.

Figure 23. Logout.

5.3.3 Content

(a) Getting started

This section of the website is the one that is displayed by default after accessing the user's correct authentication and offers shortcuts organized according to the groups of content available.

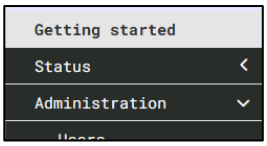

Figure 24. Getting started menu.

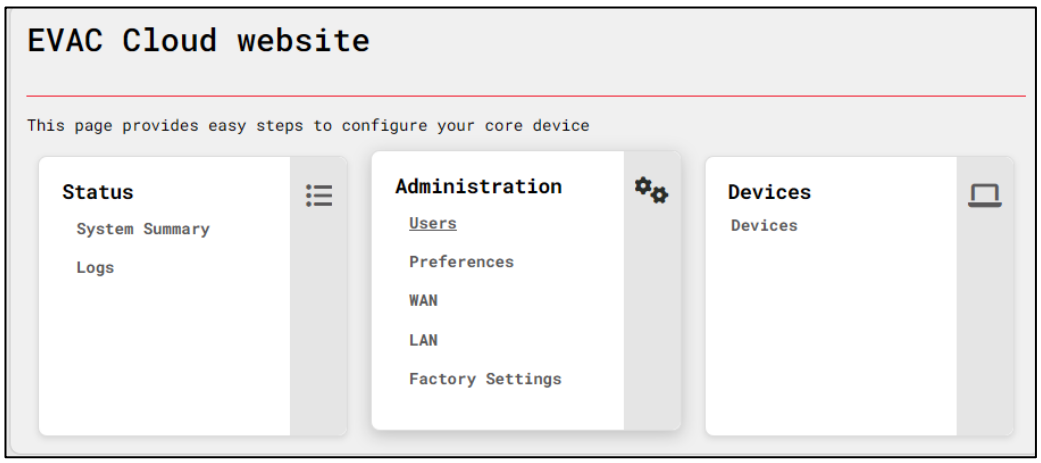

Figure 25. Getting Started window.

To access a specific screen, simply hover over the name of the desired content and click.

This structure makes it easy to navigate and access the various functionalities and configurations of **EVAC Control** intuitively and efficiently.

(b) Status

The sections of this section group the basic information of the system, and its activity log are grouped together.

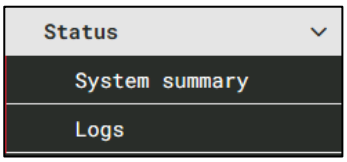

Figure 26. Status menu.

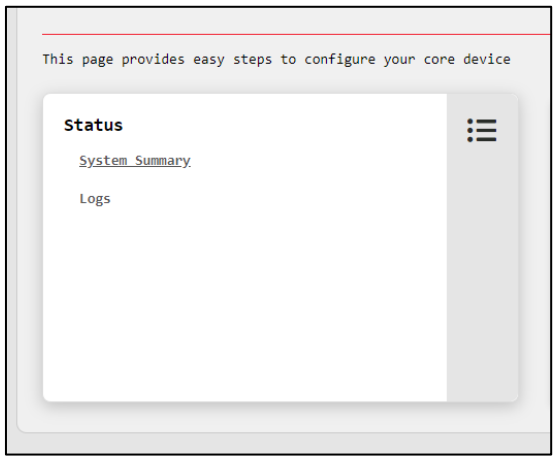

Figure 27. Shortcut selection.

(b).1 System summary

This screen shows a summary of the data from the **EVAC Control** equipment along with the information from it recorded in the LDA **Audio Tech cloud**. The information is divided into the **Cloud** and **System** groups and is detailed below.

(b).1.1 Cloud

- **Cloud connection state:** Shows whether the device is connected to the **LDA Audio Tech** cloud. This information corresponds to the status indicator in the top bar: green when there is a connection to the cloud and red when there is not.
- **License expiration date:** Indicates the date on which the contracted services will expire, providing the user with a clear reference on the validity of their license and the possible need for its renewal.

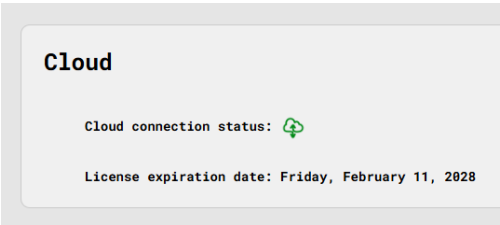

Figure 28. System summary. Cloud

(b).1.2 System

- **Serial number:** Serial number of the **EVAC Control device**.
- **Version number:** The current version of the device software.
- **Version of the Operation System:** Version of the Operating System.
- **Device Id:** Device identifier.
- **Name:** Displays the name assigned to the device.
- **Account name**: Name of the account or company to which the device belongs.
- **Country:** Country where the device is located.
- **Location:** Most specific physical location of the device
- **Project name:** The name of the project to which the device is assigned.
- **Dealer:** Authorized dealer of the device.

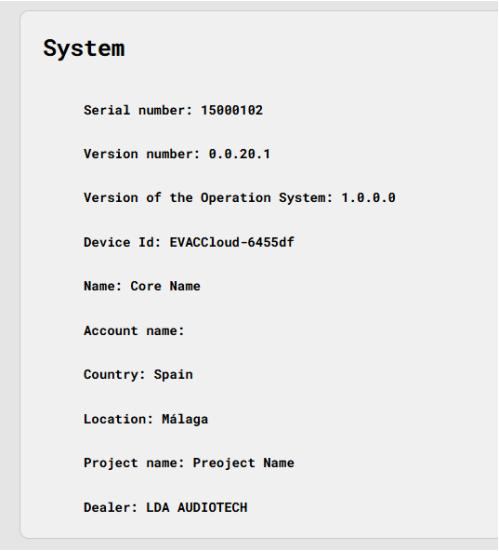

Figure 29. System Summary. System

(b).2 Logs

On this screen, you can request the download of the log containing the system activity log. By default, the activity log will not be displayed automatically but must be requested manually by clicking on the "**Show Logs**" button.

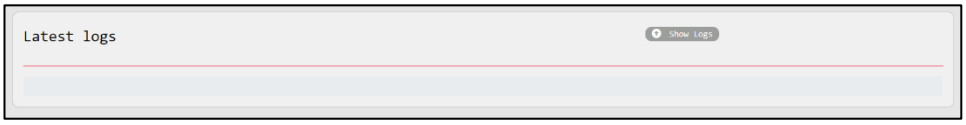

Figure 30. Logs.

After pressing this button, the log will be uploaded to the content panel, providing detailed information about the activities and events recorded by the **EVAC Control** device.

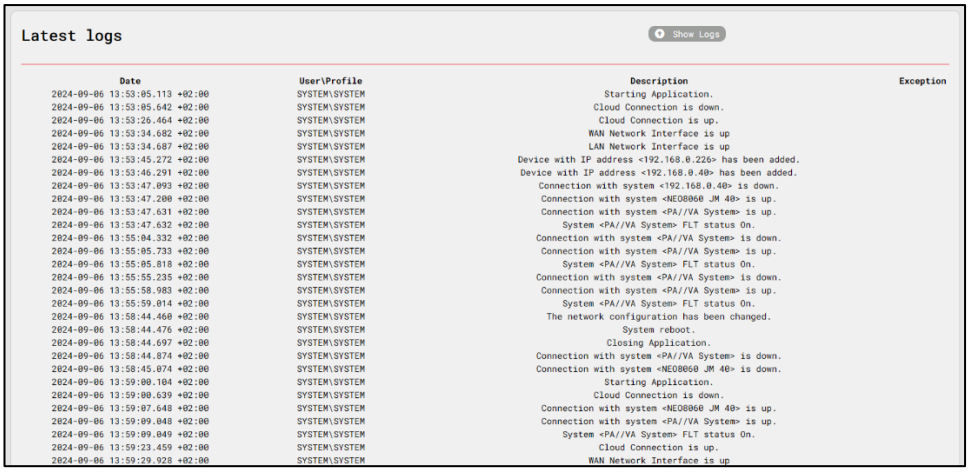

Figure 31. Log downloaded.

The columns display the following information.

- **Date:** The UTC date and time when the log entry was logged. The time can be set in the 5.3.3(c).2 Preferences.
- **User\Profile:** User and profile whose activity has produced the log entry point. For system-specific actions, the string "**SYSTEM\SYSTEM**" will be displayed.
- **Description:** Descriptive text of the recorded action or event.
- **Exception:** If the entry logs an error, this column will display extended information about the error.

(c) Administration

The administration submenu gives access to the configuration of different functional sections of the **EVAC Control** system.

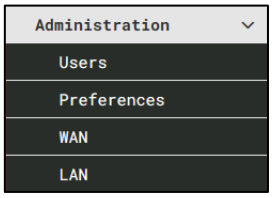

Figure 32. Administration submenu.

(c).1 Users

This section presents a table that lists existing local users. Local users are those who can only access the device's local website through its **LAN** interface. All users listed here will have an **installer** profile.

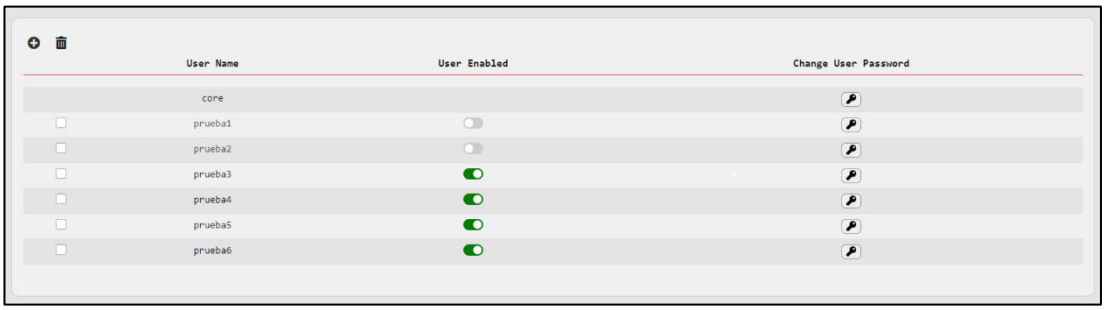

Figure 33. List of users.

The columns in the table display the following information:

- **User Name:** Unique identification of the user in the system.
- **User Enabled:** Indicates whether a user has access to the device's local website enabled.

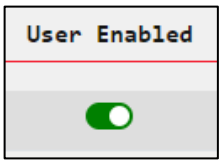

Figure 35. Enabled user.

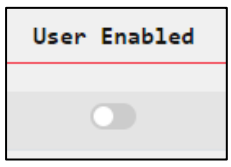

Figure 34. Disabled user.

- **Change User Password:** This column shows a button that when clicked allows you to change the user's password. This procedure will be described in detail later.

On the upper left corner of the table are the buttons to **add** and **remove** users. Both actions will be described in detail later.

(c).1.1 Add a new user

By pressing the first of the buttons mentioned above, a new user can be added to the system to access the local website. To add a new user, you will have to enter a **name** and password. This will have to be entered a second time to ensure that it is the desired value.

All added users will have **an Installer** profile.

Figure 36. Window to add a new user.

The password must contain at least 14 alphanumeric characters, one uppercase letter, and one symbol or special character.

If any of the fields are left blank or contain an invalid value, a related error message will be displayed:

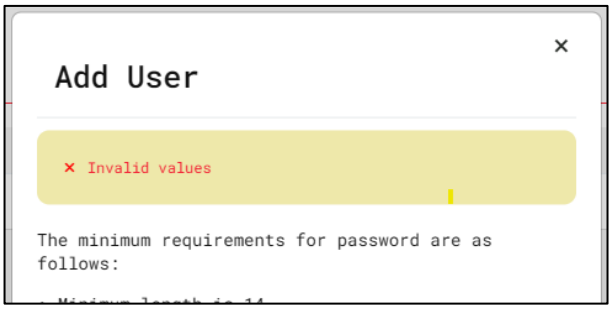

Figure 37. New user: Invalid value.

(c).1.2 Delete existing user

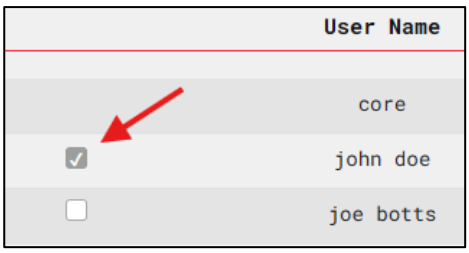

Figure 38. User selection.

Users can be removed from the list using a multi-selection process. This procedure requires that the users to be removed must be selected by checking the boxes on the left side of each row.

The current user cannot delete himself, which is why the checkbox is not displayed in his row in the table.

Once you have selected the users you want to delete, you must click on the button to the right of the button to add new users. This multi-select and deleted method facilitates efficient user management in **EVAC Control**, allowing multiple changes to be made quickly and accurately as needed.

Before deleting the selected users, you will be prompted to confirm this action using a dialog box.

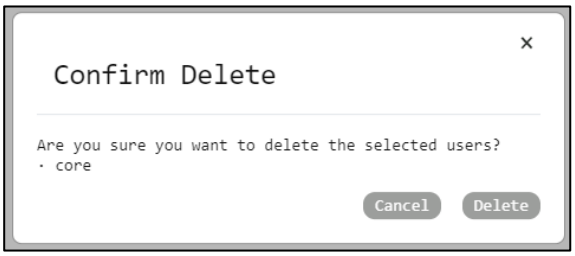

Figure 39. Confirmation to delete user.

(c).1.3 Enabling or Disabling Users

By clicking on a user's switch in the **"User Enabled"** column, you can change their enabling status.

A user can't disable themselves, so their row in the user table won't see the enable switch.

Each time this switch is clicked to enable or disable a user; a dialog box will be displayed requesting confirmation of the action.

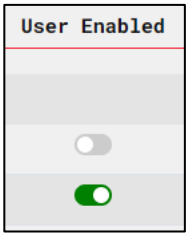

Figure 40. User Enabled.

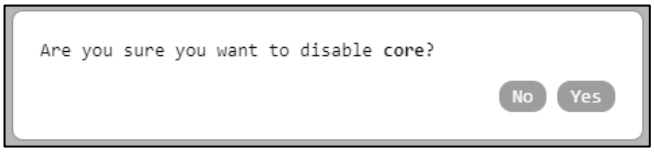

Figure 41. Confirmation to disable user.

Disabled users will not be able to access the EVAC Control on-premises web until they are enabled by another user.

(c).1.4 Changing user passwords

By clicking on the key icon located to the right of a user's row, a dialog box will appear through which they can change their current password.

In the case of the user currently logged in, the current password will also be requested.

Figure 42. Password Change Button

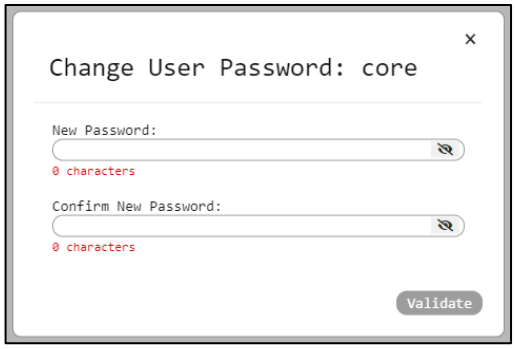

Figure 44. A dialog box for changing a user's password.

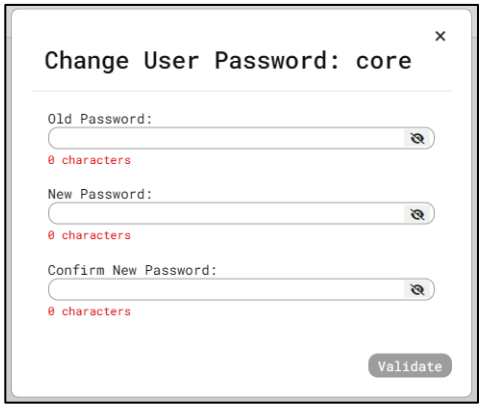

Figure 43. Dialog box for changing the current user's password.

(c).2 Preferences

In this section you can set the time zone in which the device is located.

Figure 45. Preferences window.

The time zone is presented as a drop-down menu that allows you to select from the different options available.

To apply the new selected time zone setting, the **"Apply Changes"** button must be clicked. This button is located at the bottom right of the preference container.

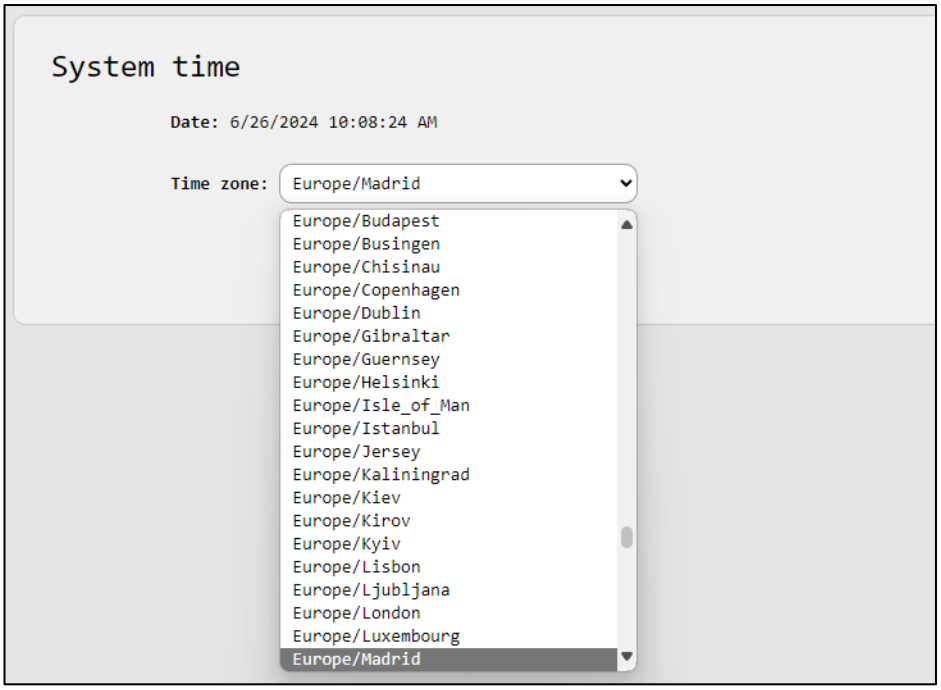

Figure 46. Time zone selection.

(c).3 WAN

In this section, you can change the parameters of the device's ethernet **WAN** interface. The **WAN** port is intended to provide internet access to the device so that it can connect to the **LDA Audio Tech cloud**.

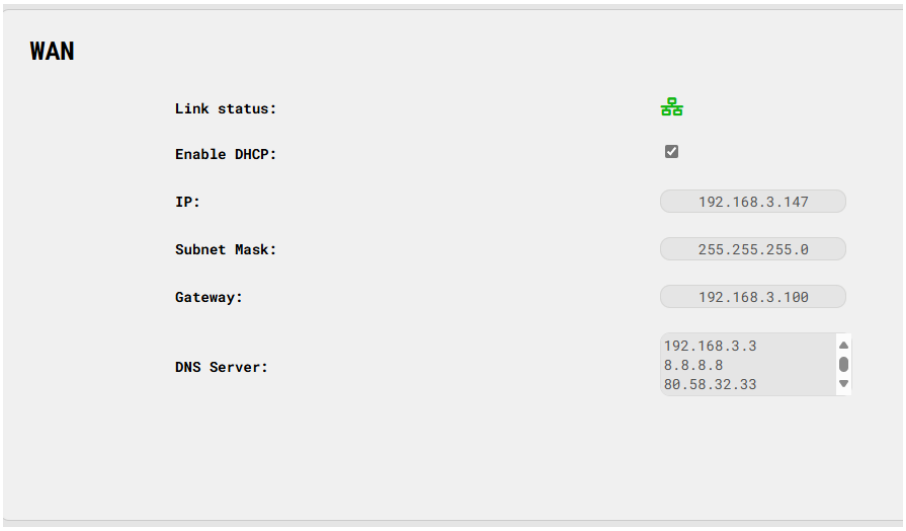

Figure 47. WAN interface configuration.

- **Link status:** It is an indicator of port status, if the icon is green, it means that there is a physical connection between the device and the network infrastructure that gives access to the Internet. Conversely, the icon will be red in case there is no physical connection.
- **Enable DHCP:** Enables/disables the **DHCP** (Dynamic Host Configuration Protocol) connection protocol. **DHCP** allows "auto-negotiation" of network configuration. By default, it is enabled. To be able to manually configure the rest of the network parameters, you will have to disable this one.
- **IP:** It is the IP address that the device has, it is only allowed to configure the IP address in version 4 (IPv4) of the protocol.
- **Subnet Mask:** This is the network mask of the network interface.
- **Gateway:** This is the gateway's IP address, which acts as a gateway between the appliances or devices in the network infrastructure to which the **WAN** port connects.
- **DNS Server:** This is the address of the desired DNS server for the internet connection.

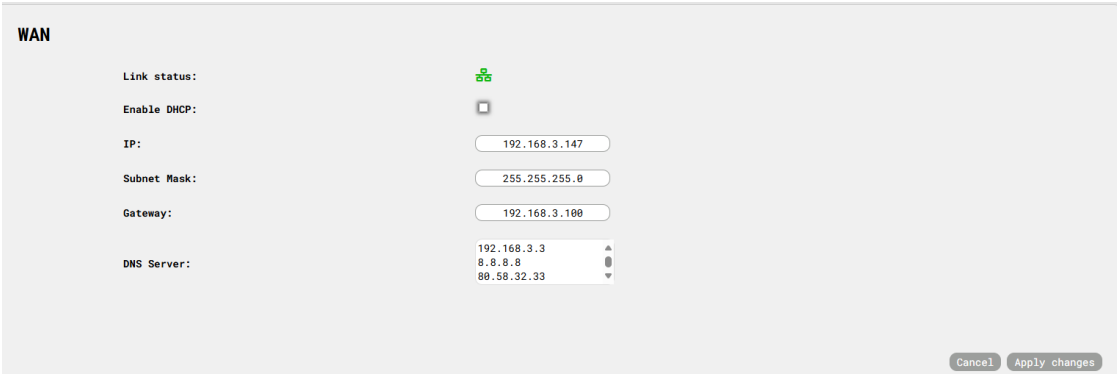

Figure 48. DHCP WAN disabled.

Clicking on the **"Cancel"** button will restore the current value of each parameter that has been modified, undoing any unapplied changes.

To apply any changes to the WAN's interface settings, you will need to click on the **"Apply changes"** button. The device will automatically restart to apply the new network parameters.

(c).4 LAN

Here you can configure the parameters of the LAN ethernet port. This port is intended for communications between the **EVAC Control** device and the systems that connect to the local network, either for monitoring or remote access.

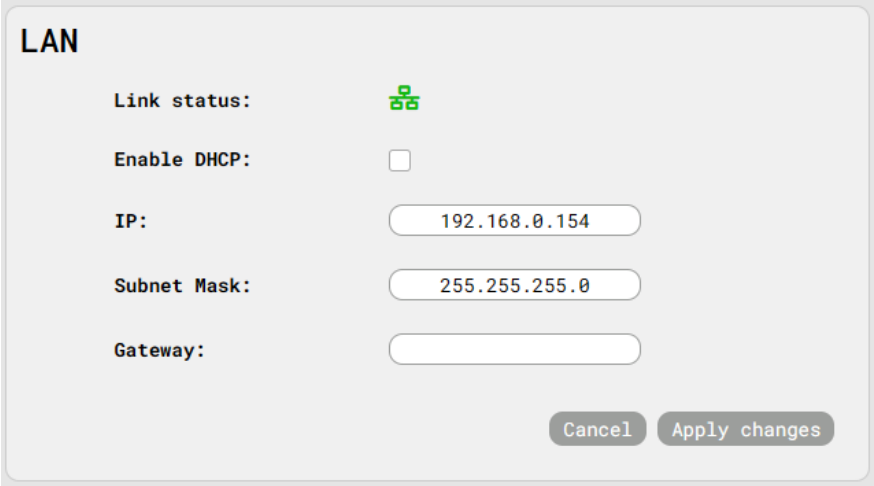

Figure 49. LAN interface configuration.

- **Link status:** It is an indicator of port status, if the icon is green it means that there is a physical connection between the device and the local network infrastructure. Conversely, the icon will be red in case there is no physical connection.
- **Enable DHCP:** Enables/disables the **DHCP** (Dynamic Host Configuration Protocol) connection protocol. The **DHCP protocol** allows for "auto-negotiation" of network configuration. By default it is disabled. To be able to configure the rest of the parameters, you will have to disable this one.
- **IP:** It is the IP address that the device has, it is only allowed to configure the IP address in version 4 (IPv4) of the protocol. By default it has the value **192.168.0.253** for **EVAC Control devices**.
- **Subnet Mask:** It is the network mask of the device, whose function is to indicate to the device which part is the IP address, including the subnet, and which part is the one corresponding to the host. Default has the value: **255.255.255.0**
- **Gateway:** This is the gateway address, which acts as a gateway between the appliances or devices in the network infrastructure to which the port connects.

Clicking on the **"Cancel"** button will restore the current value of each parameter that has been modified, undoing any unapplied changes.

To apply any changes to the LAN's interface settings, you will need to press the **"Apply changes"** button. The device will automatically restart to apply the new network parameters.

(c).5 Factory settings

In the "**Factory Settings**" section, there are two groups of parameters and functions.

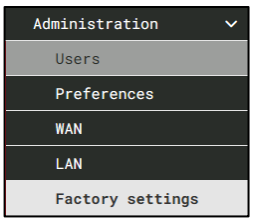

Figure 50. Factory settings

(c).5.1 System settings

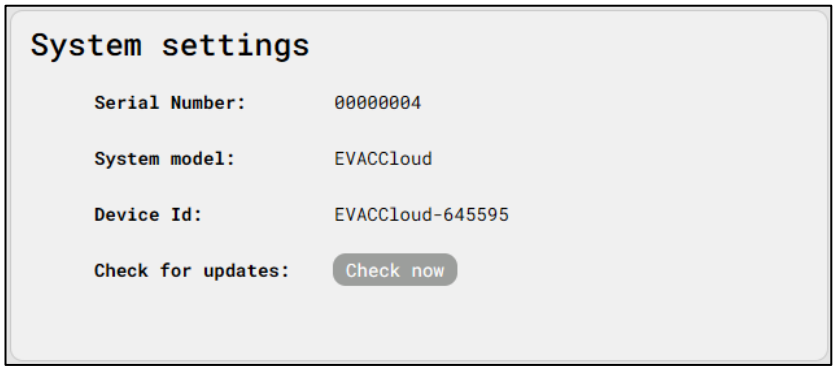

Figure 51. System settings.

- **Serial number:** Displays the unique serial number of the **EVAC Control device**.
- **Model:** Displays the model of the device.
- **Device Id:** This is the identifier of the device.
- **Check for updates:** Displays the "**Check now**" button. By pressing this button, if the internet connection is available via the **WAN** interface, a new version of the EVAC Control device's internal software is checked.

After pressing the "**Check now**" **button**, if when connecting to the **LDA Audio Tech cloud** the device verifies that it is already updated to the latest version of the software, the following message will be displayed:

"The system is up to date with the latest version."

On the other hand, if it is verified that a new version of the software is available, the text of the "**Check now**" button will change to "**Upgrade**" and a message will appear indicating the number of the software:

"A new version is available ..."

In the latter case, you will have to press the "**Upgrade"** button to download the new version. When the download is complete, your device will automatically restart the new version of the internal software to be installed.

IMPORTANT: It is recommended that you do not turn off or interrupt power to your EVAC Control device during the update process, as this may cause damage to your system and take it out of service.

During this process, the browser will lose connection with the device, so it will be necessary to close the window or tab where the local website is loaded and reload it in a new window or tab to check that the update has been carried out successfully and all the parameters are still correct.

(c).5.2 System Reset

Figure 52. System reset.

- **Factory reset**: Action that will reset the **EVAC Control** device to its factory default settings, removing all custom settings, such as local users, monitored devices, or configured remote access points. **WAN** and **LAN** configurations will also be restored to factory settings and the system activity log will also be deleted.
- **Reboot**: Performs a reboot of the device while maintaining its current settings.

Before performing either of these two actions, confirmation will be requested using a dialog box.

(d) Devices

This module makes it easy to monitor the overall health of **EN54-16** system controllers. It also allows direct bridge connections to be made through the **LDA Audio Tech** cloud, both with equipment belonging to an **EN54-16** system, and with generic equipment that is on the same **LAN** network as the **EVAC Control device**.

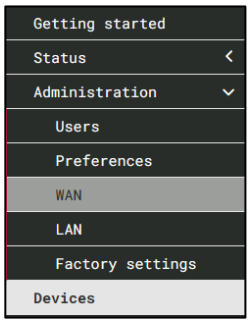

Figure 53. Devices menu.

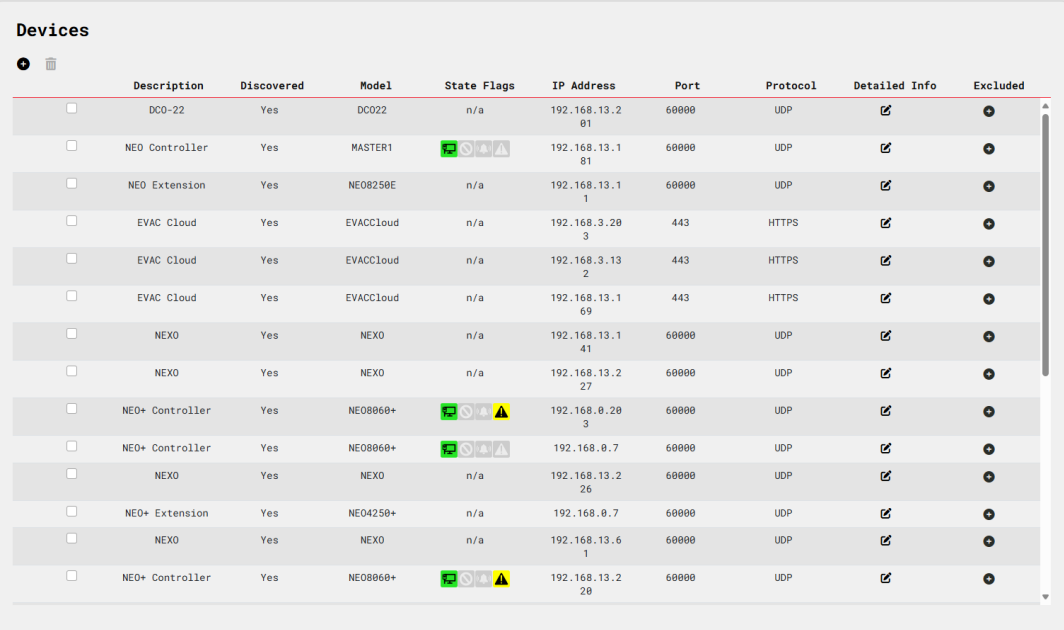

Figure 54. Devices.

The module periodically searches for **EN54-16** system controllers and extensions present in the EVAC Control **LAN** network at **30 second** time intervals. System controllers are added to the **EVAC Control** monitoring mechanism that will notify via the **LDA Audio Tech** cloud of any changes in the general operating conditions of the **EN54-16** system; system failure (**FLT**), active emergency (**EMG**), disarmament (**DIS)** or **connection status** with the system controller equipment on the **LAN** network.

Figure 55. Status flags.

In addition, if the device is connected, more information can be displayed by pressing the connect button. When doing so, the synchronization parameters will be displayed, indicating which ones are working correctly and which ones have connection failures.

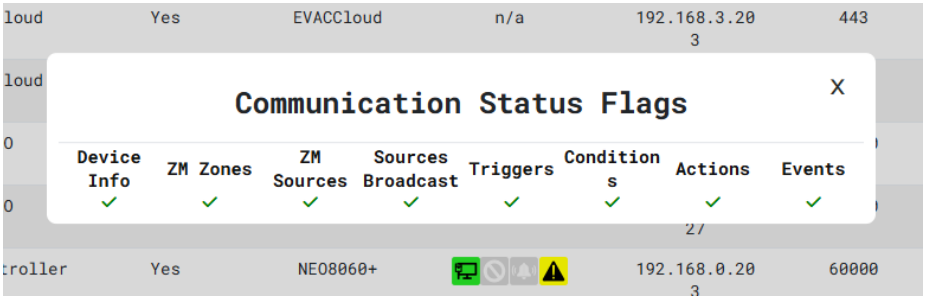

Figure 56. Connection status flags.

(d).1 Add Device

It allows you to manually add **EN54-16** equipment that is not automatically detected in the **EVAC Control LAN** network or generic equipment, to allow its monitoring and direct connection through the **LDA Audio Tech** cloud. In case the added device is a controller of an **EN54-16** system, its operating conditions will also be monitored.

Figure 57. Add a device.

- **Description**: Adds a description to the added equipment, to better organize/categorize the list with all the added equipment.
- **Model:** Drop-down to select the device model to add. Possible options are:

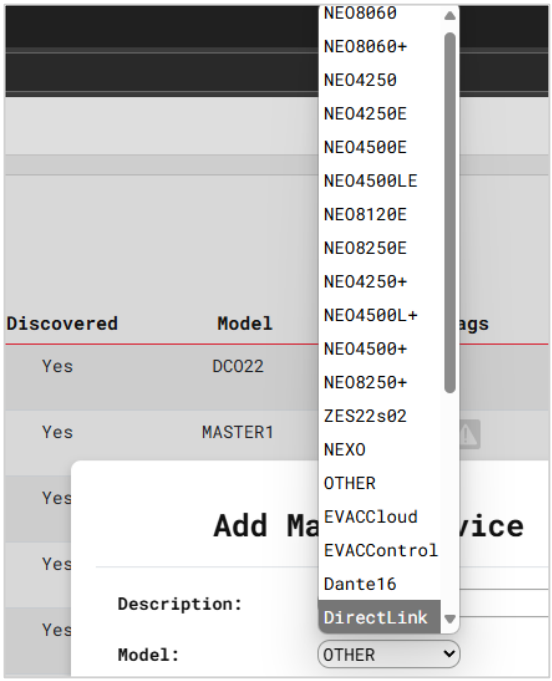

Figure 58. Model selection.

The value "**OTHER**" will be used to enable remote connections with devices not included in the rest of the available options or with some other access point or application that serves connections within the **EVAC** Control **LAN** network using an IP address, a port number and a defined protocol (web server, remote desktop...).

- **IP Address:** IP address (IPv4) of the system or device.
- **Port:** Number of the connection port. Valid values are between 1 and 65535. In the case of selecting the **NEO8060** and **NEO8060+** models, this value will always be **60000**.

- **Protocol**: It is the communications protocol that is going to be used. Possible values are:

  TCP **UDP**

  HTTP **HTTPS**

  In the case of selecting the **NEO8060** and **NEO8060+ models,** the protocol will always be **UDP**.

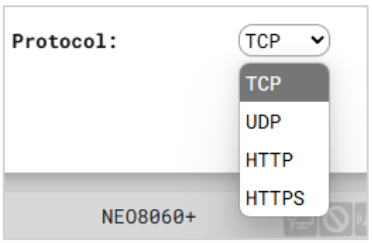

Figure 59. Protocol selection.

- **Add button:** Add the equipment or access point to the **"Device list"** section, so that monitoring can be started when it is an **EN-54 16** system controller, and allow remote connection through the **LDA Audio Tech cloud**.

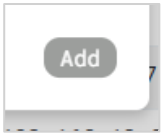

Figure 60. Add device button.

For it to be added successfully, the **Model**, **IP Address**, **Port,** and **Protocol** fields must be correctly filled.

You cannot add a device if there is already another device with identical values in the **IP Address**, **Port,** and **Protocol** fields.

(d).2 Device List

This section shows all the devices that have been automatically found in the EVAC Control LAN network, as well as all those devices or access points added manually.

- **Description:** Descriptive text entered when a device or access point has been manually added from the **"Add a device"** section. In the case of devices detected in the **LAN network**, a generic description will be displayed.
- **Discovered:** Indicates whether the device has been detected automatically or added manually.
- **Model:** This is the model of the equipment detected or added manually.
- **State Flags:** Status indicators, including alert, emergency, disarm, and connection.
- **IP Address:** IP address (IPv4) of the device found or added manually.
- **Port:** The number of the communications port of the device found or added manually.
- **Protocol:** Connection protocol used.
- **Detailed Info:** Detailed information about the device, with the possibility of modifying fields such as IP address and connection type.

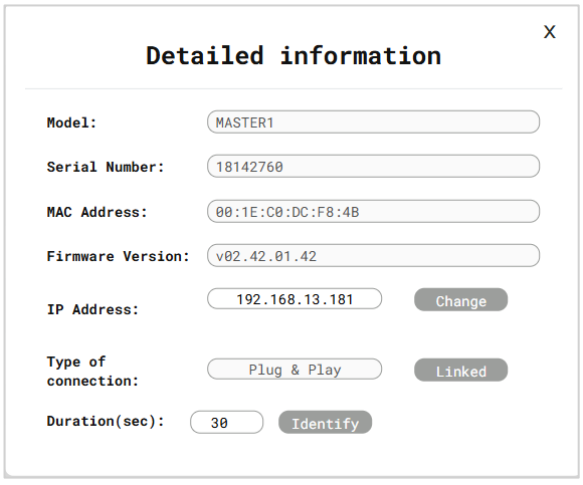

Figure 61. Detailed device information.

- **Model:** This is the model of the equipment detected or added manually.
- **Y/N:** Serial number of the equipment found or added manually. This field will only be populated if the device is physically present on the EVAC Control LAN.
- **MAC Address:** MAC address of the device found or added. This field will only be populated if the device is physically present on the EVAC Control LAN.
- **Fw Version:** Firmware version number of the device found or added manually. This field will only be populated if the device is physically present on the EVAC Control LAN.
- **IP Adress:** IP address (IPv4) of the device found or added manually.
- **Type of connection:** "Plug and Play" means that the device has been automatically detected but will be removed and researched on each new search. To fix it, you need to press the "Linked" button. Once paired, you will not be able to return to "Plug and Play" mode.
- **Duration Refers** to the time during which the device flashes for easy identification while in the rack.

- **Excluded:** A physical equipment can be included or excluded from monitoring its status conditions towards the LDA **Audio Tech** cloud and the possibility of establishing remote connections with it. Depending on the action available for a particular team, the action button will look different:
  - Add as excluded
  - Delete as excluded

When a device or access point is excluded, it will be grayed out.

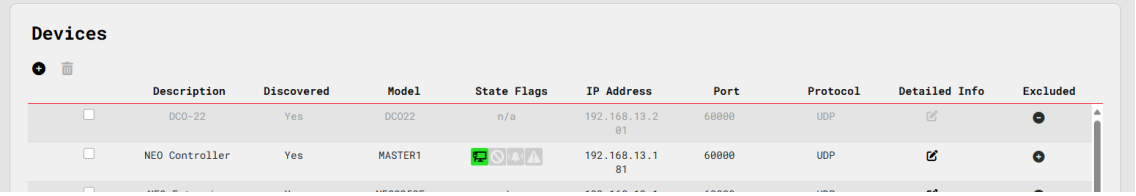

Figure 62. Device excluded.

To re-include an access point or device in remote access and monitoring, the button must be pressed again.

Only devices that are automatically detected on the LAN network can be excluded. This option, therefore, will not be available for manually added devices or access points.

(d).3 Remove Device

This action allows you to remove the corresponding equipment from the list. If a deleted device is detected again on the EVAC Control LAN local network, it will be automatically added back to the list.

The recommended use of this feature is to remove from the list those devices that have been physically disconnected from the local **LAN** network and are certain that they will not be reconnected to it.

This is a multiple-choice action. To do this, you need to tick the checkbox at the beginning of each row of the devices you want to remove and then press the button with the delete icon in the upper left corner.

If you want a device to continue to appear in the list, but you do not require monitoring or making remote connections to it, the indicated action is to exclude it.

6 EVAC CONTROL

6.1 Access

From the EVAC Core Website login screen, you can access the EVAC Control web application.

Figure 63. Direct access to the EVAC Control website

6.2 Login

After accessing the application, the login screen is displayed, where the user credentials and password are requested to access.

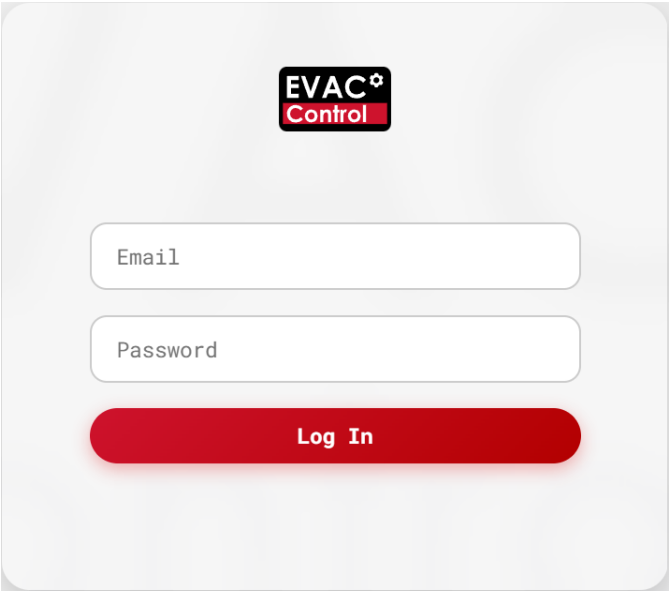

Figure 64. Login

By default, the device has a pre-configured user to access the interface:

- User: **installer**
- Password: **p2daPl=jloq937**

Users with an "installer" profile will be able to create new local users from the EVAC Core Website. See chapter 5.3.3(c).1 Users.

The system allows a maximum of three active sessions simultaneously. This means that only three different browsers (or three tabs/users) can be connected at the same time in the web interface.

6.3 Interface

The application interface is designed to provide a centralized view of the system and allow for easy control and monitoring of the system and its zones. The main screen is divided into several sections that are described in the following sections.

Figure 65. Interface

6.3.1 Connection States

The EVAC Control device's connection state to the cloud is displayed in the upper right corner.

The device is connected to the cloud and can be accessed both locally and remotely.

The device is not connected to the cloud and can only be accessed locally.

In the system status bar is the connection state of the NEO/NEO+ system linked to the EVAC Control environment.

There is no NEO/NEO+ system linked to EVAC Control

There is connection to the linked NEO/NEO+ system.

There is no connection to the linked NEO/NEO+ system.

6.3.2 System States

Displays the different states of the connected PA/VA system.

	PA / PUBLIC ADDRESS	The system is in normal PA operating state.
	EMG/EMERGENCY	The system is in a state of emergency.
	FLT/FAULT	The system is in a state of failure.
	DIS/DISARM	Some zones of the system are disabled.
	CHG/SYSTEM CHANGES	There have been changes in the system that need to be validated.

If the status icon shows a number in its upper-right corner, it means that there are notifications associated with that status that can be viewed in the notification panel. View chapter 6.3.5 Notifications.

6.3.3 Menu Bar

(a) Tools

- **Calendar:** View, planning and automated execution of preconfigured messages on events scheduled in the EVAC Control calendar.
- **Pre-recorded Manager:** Management of the library of pre-recorded messages hosted in EVAC Control for use in calendar and immediate events.
- **Immediate Pre-recorded Launcher:** Allows you to launch pre-recorded messages immediately without the need to generate a calendar event.
- **Immediate TTS Launcher:** Generation and delivery of pre-recorded messages using the integrated Text-to-Speech function based on Artificial Intelligence.
- **Immediate VoiceNow Launcher:** Allows immediate broadcasting of voice messages using a microphone input connected to the control device.
- **Source Router:** Management of routing audio sources to zones of the PA/VA system.
- **NEO Events:** Facilitates the manual activation of events configured in the NEO/NEO+ system controller, integrated via UDP protocol.
- **Logs:** View system activity logs.

(b) Settings

- **Device Discover:** Displays the NEO/NEO+ system drivers located on the local network. Allows you to add or remove the system to EVAC Control.

- **Save System Preset:** EVAC Control stores the configuration parameters of the PA system on the connected NEO+ device, ensuring that they are preserved in the event of system reboots or connection losses. This feature is not available for classic NEO systems.
- **Device Configuration:** Link to the EVAC Control Website.
- **Preferences:** Setting calendar and TTS preferences in the EVAC Control app.

(c) Help

- **Support:** Link to the LDA Audio Tech Support website.
- **About:** EVAC Control device information.

6.3.4 Event Grid

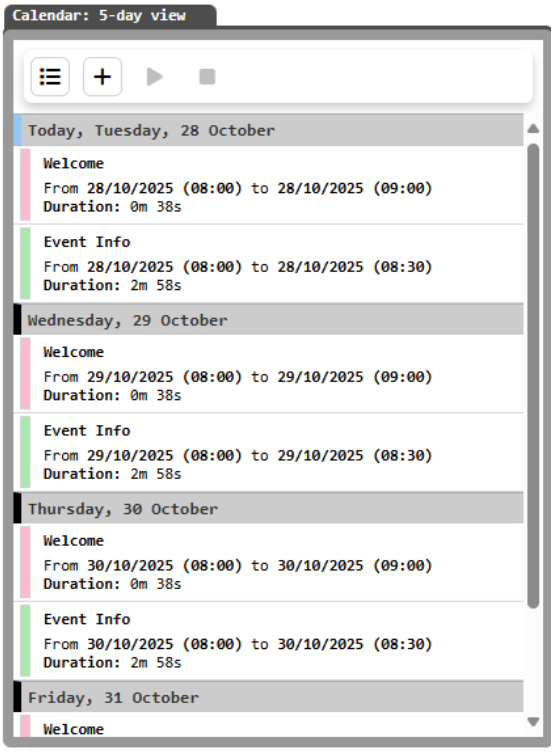

Figure 66. Event Grid

Displays the schedule of calendar events for the next 5 days. Each event details: name, time window in which it is played (date and time) and its duration.

The top strip contains direct links to the list of events and creation of new events. For more detailed information on event generation, see the chapter 6.5.1(a) Calendar.

In addition, immediate events that have already been launched for 1 hour since their last execution are displayed. These can be relaunched via the "Play" button while they are still active on the list.

To stop an event, whether scheduled or immediate, press the "stop" button to stop its voiceover.

6.3.5 Notifications

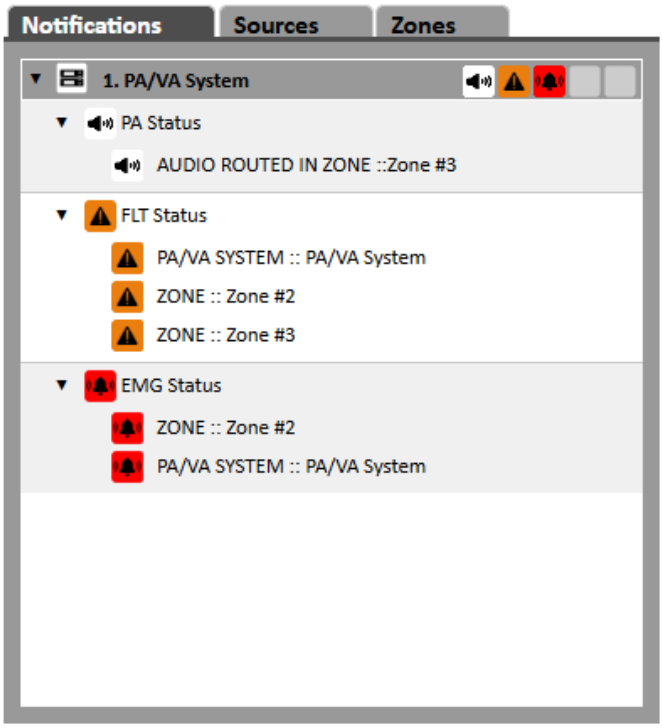

Figure 67. Notifications tab

It provides detailed information about the system states and the zones affected by each state. For more information on system statuses, see chapter 6.3.2

System States .

There are four types of notifications depending on their origin: system, failure, emergency and disarmament.

6.3.6 Sources

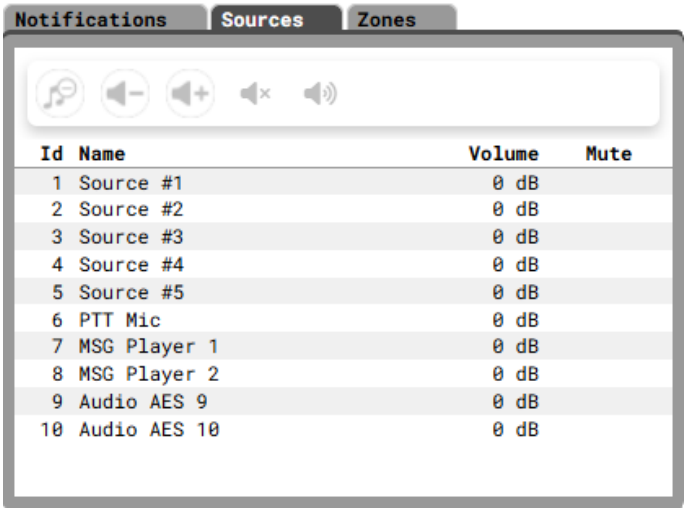

Figure 68. Audio Sources Tab

Displays all available audio sources from the linked NEO/NEO+ system. For more information on audio sources, see the chapter 6.5.3 Sources.

6.3.7 Zones

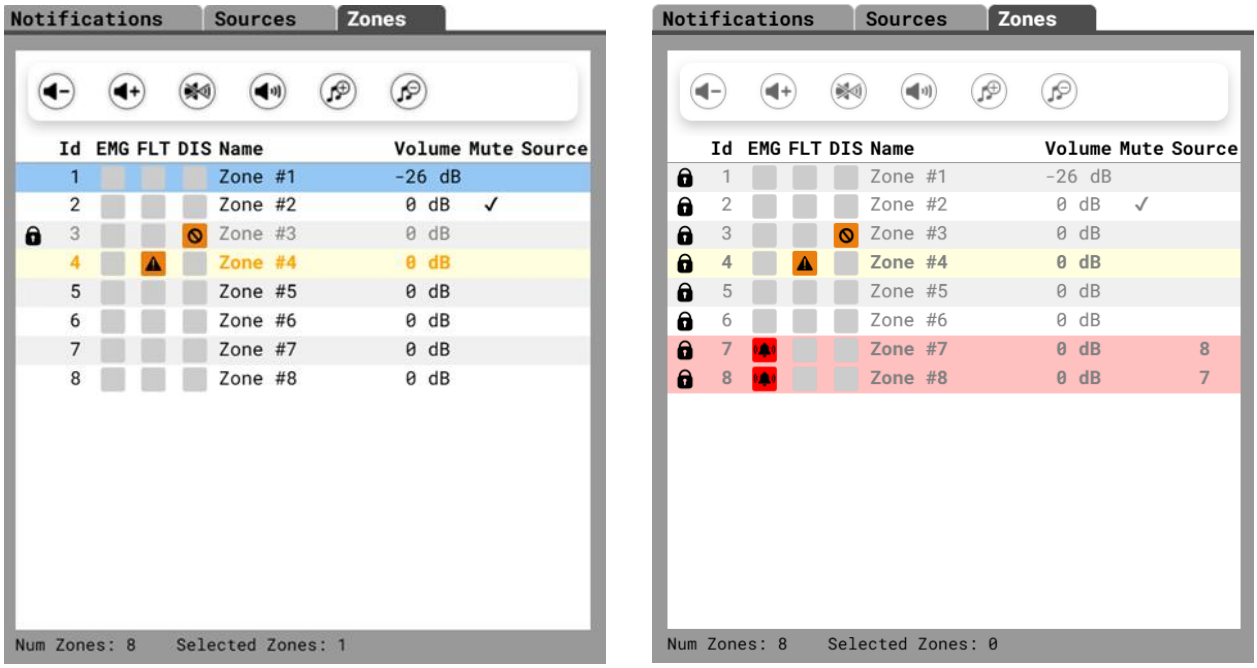

Figure 69. System Zones Tab

Displays all available zones of the linked NEO/NEO+ system, their status, volume, and assigned audio source. For more information on the zones of the system, see the chapter 6.5.4 Zones.

6.3.8 Zone Maps

It allows you to visualize and organize the audio zones by means of a graphical representation within a system map. This facilitates both the control and monitoring of the general condition of the evacuation system.

Figure 70. Map

6.4 Configuration

6.4.1 System

The "Device Discover" section of the "Settings" menu allows the user to locate and manage connected systems within the local network.

The "Identify" button allows you to physically locate the selected controller. When pressed, the physical LEDs of the equipment will flash, making it easier to identify in the real environment.

(a) Add System

To add a system to the EVAC Control environment, select the desired controller and press the "Add System" button.

A confirmation message will then appear. Once the system has been successfully added, its status icon will change to green.

EVAC Control only allows the management of one system at a time. In case there is already a system assigned in EVAC Control, an error message will appear.

(b) Remove System

To remove a system from the EVAC Control environment, select the desired controller and press the "Delete System" button.

A confirmation message will then appear.

6.4.2 Preferences

Allows you to configure EVAC Control's calendar preferences and the language and voice options of the Text-To-Speech tool.

Click "Validate" to apply the changes made or "Cancel" to discard them.

(a) Calendar

- **First Day of the Week:** The user can set the day with which the calendar week begins, choosing between **Sunday** or **Monday** . This option only affects the calendar view format.
- **Enabale Calendar:** Enables the use of system calendar. This option is critical for scheduling and replaying calendar events.

  If this option is disabled, it will not be possible to configure audio mode.
- **Calendar Audio Mode:** EVAC Control allows you to play back calendar events using digital or analog audio streaming:
  - **Digital Audio:** Compatible only through AES67 transmission. It uses **audio channels 1** and **2** from **Stream 31** (IP 239.121.1.100). They must be previously configured in the NEO+ system.

    If Audio Streams are not added as a source in AES67 on NEO+ or it is a NEO system, it will not be possible to assign digital audio sources.
  - **Analog Audio:** Allows you to select an analog physical input from the NEO/NEO+ system. Physical **sources** 1 through **4 will be available.**

    One or two sources can be used at a time depending on whether “Two Channels Mode" is active.

(b) Text-To-Speech

- **Language:** Selects the default language that the TTS tool will use.

- **Voice:** Selects the default narration voice that the TTS tool will use.

The factory preset uses the **English (United Kingdom)** language and the **en-GB-Neural2-A** voice**.**

6.5 Using the app

6.5.1 Tools

(a) Calendar

EVAC Control's calendar events tool allows the creation, scheduling, and management of messages that will be automatically played by connected NEO/NEO+ systems. It is designed to facilitate the broadcasting of automated messages (pre-recorded or TTS) on defined days and times, with the possibility of daily, weekly or monthly repetition.

(a).1 Add Calendar Event

To create a new event, click on the "Add Event" button. The event's schedule is divided into three sections:

- **Schedule:** General characteristics and time planning of the event.

This section defines the name and description of the event. They can be categorized with color labels.

By deselecting the "Enable" option, you can create the event so that it becomes inactive.

Set the start date and time window during which the event is played and its recurrence frequency.

- **Messages:** A selection of messages to be played at the event.

Two lists appear in this window:

The first contains all the prerecorded messages saved on your computer. It contains a shortcut to the "Pre-recorded manager" tool.

The second will display the selected messages. The maximum possible messages that can be used in an event is 10 minutes or 32 messages.

- **Zones:** Selection of zones through which the event is played.

NOTE: The system supports a maximum of **100 scheduled events**. Once this number is reached, it is not possible to add more until you remove or disable an existing one.

(a).2 Edit Calendar Event

To edit an event, you must access the "Event List" window. See next section 6.5.1(a).3 List of events.

Select the desired event and press the "Edit" button. The steps to modify the event will be the same as described in the previous section, see 6.5.1(a).1 Add Calendar Event.

(a).3 List of events

The event list displays all calendar events created in the system. The actions available for management are:

- **Enabled:** Enables the event. If disabled, the event will be unavailable and will not play.
- **Edit:** Allows you to edit the selected event. Editing follows the procedure described in the previous section.
- **Duplicate:** Opens the new event creation window with the preconfigured options of the original event.
- **Details:** Displays all relevant event information, including general features, time schedule, event status, assigned zones, and messages.
- **Select All:** Marks all events to perform batch actions.
- **Deselect all:** Uncheck all selected messages.

(b) Pre-recorded Manager

EVAC Control allows you to manage pre-recorded messages and generate new messages using TTS (Text to Speech) or voice recording (VoiceNow) technology. These messages are used in system calendar events and in the Immediate Message Launcher. See section 6.5.1(a) Calendar.

The Pre-recorded Manager tool displays the audio files uploaded to the EVAC Control device.

- **Select All:** Marks all events to perform batch actions.
- **Deselect all:** Uncheck all selected messages.
- **Add Message:** Allows you to upload new audio files from your local computer to your EVAC Control device.
- **Delete message:** Deletes selected messages from the list
- **Open TTS:** Shortcut to the TTS tool to generate voice messages from text.

NOTE: The system supports files in MP3, WAV, and WEBM formats, with a maximum duration of **10 minutes**. The device has an **internal storage of 7GB.**

(c) Immediate Pre-recorded Launcher

This tool allows you to launch pre-recorded messages without the need to create an event beforehand. This message can be reused for 1 hour from its last execution via the "Event grid" window, see section 6.3.4 Event Grid.

- **Messages:** A selection of messages that play in the immediate message.

Two lists appear in this window:

The first contains all the prerecorded messages saved on your computer. It contains a shortcut to the "Pre-recorded manager" tool.

The second shows the selected messages. The maximum possible messages that can be used in an event are 10 minutes or 32 messages.

- **Zones:** Selection of zones through which the immediate message is played.

(d) TTS Launcher

The TTS (Text to Speech) tool allows you to generate personalized messages, converting text into voice-over automatically and emitting them immediately through the selected zones. This message can be reused for 1 hour from its last execution via the "Event grid" window, see section 6.3.4 Event Grid.

It offers the possibility of working with multiple languages and different types of voices, it has 18 language options and more than 50 voices. To set the default TTS settings see the settings chapter 6.4.2(b) Text-To-Speech.

- **Name:** Name of the generated audio file. It only supports alphanumeric characters and the hyphen "-", underscore "_", and parentheses "()" symbols. It is limited to 64 characters.
- **Language:** Selection of the language of the message.
- **Voice:** Voice selection within the chosen language.
- **Text:** Input field for the text message to be converted to speech. It is limited to 3000 characters.

(e) VoiceNow

The VoiceNow tool allows you to record voice messages from your computer's audio input and immediately broadcast them through selected zones. This message can be reused for 1 hour from its last execution via the "Event grid" window, see section 6.3.4 Event Grid.

- **VoiceNow:** Recording the audio message. It allows you to assign a name to the recording and preview the message before launching it.
- **Zones:** Selection of zones through which the immediate message is played.

NOTE: Audio messages will be up to **10 minutes** long.

(f) Source Router

It allows you to route a PA/VA audio source from those available in the NEO/NEO+ system to your outputs.

- **Source:** Selection of source to route. To remove any source from a zone, use source 0 (No source).
- **Zones:** A selection of zones through which the audio from the selected source is played.

(g) NEO Events

EVAC Control allows you to launch NEO/NEO+ system UDP events from the NEO Events tool.

When the NEO/NEO+ system added to EVAC Control has UDP events available, they will automatically become available.

To launch them, select the desired event and press the "Launch event" button. Only one event can be launched at a time, it is not possible to stack them for queue playback.

EVAC Control sets the event priorities in the following order from highest to lowest priority:

1st NEO/NEO+ System Event

2nd Immediate Event

3rd Calendar Event

(h) Logs

Displays the activity log of the EVAC Control System. These activities can be actions produced by the user as well as by the device itself. Press the "Get Log" button to get the information.

It shows the date and time of the recorded event, the user and profile that generated the entry in the log and a description of it.

6.5.2 Maps

After adding a system for the first time to EVAC Control, it generates a default map that includes all the zones available in the system.

Here it is possible to organize the zones through the maps in a way that makes their condition monitoring easy and intuitive.

This map edition will be customized for each user, and the changes will be effective only in the active profile.

(a) Add map

To add a new map, press the "Add Map" button which will generate a new empty tab, with no added zones.

NOTE: EVAC Control allows for the management of up to **30 simultaneous maps** and **30 zones** per map.

(b) Edit map

The "Edit Map" button allows you to edit the settings of the image represented as the map background, so that it can be easy for the user to manage a specific location.

The customizable options are:

- **Name:** Allows you to rename the current map.
- **Configuration:** Selection of the relationship between the image format and the map.
- **Height/Width:** Defines the dimensions of the map workspace.
- **Image:** Allows you to load a local image as a map background.

(c) Delete map

To delete a map, press the "Delete map" button.

NOTE: When you delete a map with background image and zones, it will not be possible to revert to the previous background image settings.

6.5.3 Sources

It allows you to manage all the audio sources available in the system.

Types of audio sources available in the system according to their ID:

- **Sources 1** to **4:** Physical analog audio inputs from the NEO/NEO+ system controller.
- **Source 5:** Manages ACSI bus audio when ACSI devices are connected to the controller. Otherwise, it is kept as the physical analog audio input of the NEO/NEO+ system controller.
- **Source 6:** PTT microphone from the NEO/NEO+ system controller.
- **Source 7** and **8:** Players 1 and 2 respectively of pre-recorded messages from the NEO/NEO+ system controller.
- **Sources 9** and up**:** Digital audio sources configured in the system. Cobranet for NEO systems and AES67 for NEO+ systems.

Next to each source is its custom name, its volume in dB and its "Mute" status.

(a) Edit Sources

The top action bar provides controls to manage each source individually:

- **Route Source:** Deletes the selected source from all zones where it is routed.
- **Volume Down:** Reduces the output level of the selected source.
- **Volume Up:** Increases the output level of the selected source.
- **Mute:** Temporarily turns off the audio from the source.
- **Unmute:** Unmutes the previously muted audio output.

To assign a source to a zone or delete it, see the sections 6.5.4(b)Edit zones and 6.5.1(f) Source Router.

6.5.4 Zones

They represent the physical audio outputs of the system where the audio sources are directed. These can be visually rearranged within maps.

To start editing zones on the map, click on the "Unlock layout" button.

(a) Add Zones to Map

When a new map is created, it appears empty. To add zones to the map, you must first select the zones within the list and then click the "Add" button in the map zone menu. The zones will be added to the selected map, organized from smallest to largest.

Zones placed on a map can be moved or rearranged to fit a visual plan or scheme.

Each zone added to the map displays its zone ID, defined volume, assigned source, and status.

NOTE: EVAC Control allows up to **30 zones** maximum per map.

(b) Edit zones

Next to each zone is its active status, custom name, its volume in dB, its "Mute" status and the assigned audio source.

The top action bar provides controls to manage each source individually:

- **Volume Down:** Reduces the output level of the selected source.
- **Volume Up:** Increases the output level of the selected source.
- **Mute:** Temporarily turns off the zone's audio.
- **Unmute:** Unmutes the previously muted audio output.
- **Route Source:** Opens the list of available sources to assign to the selected zones.
- **Unroute Source:** Deletes the source assigned to the selected zones.

(c) Delete Map Zones

To remove zones from the map, you must first select the zones within the list or on the map and then click on the "Delete" button in the map zone menu.

This action removes the zone only from the map, not from the system.

Anexo I SSL Certificate

NOTE: The screenshots shown belong to **Google Chrome**, with other browsers warning windows very similar to those shown here will be displayed.

If, once the website has loaded, the following message appears:

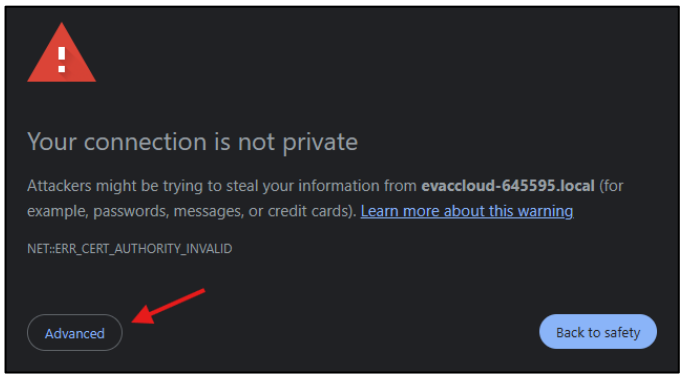

Figure 71. Privacy error.

You will have to click on the ***"Advanced settings"*** button located in the bottom left corner. The window with the warning message will expand to show additional information:

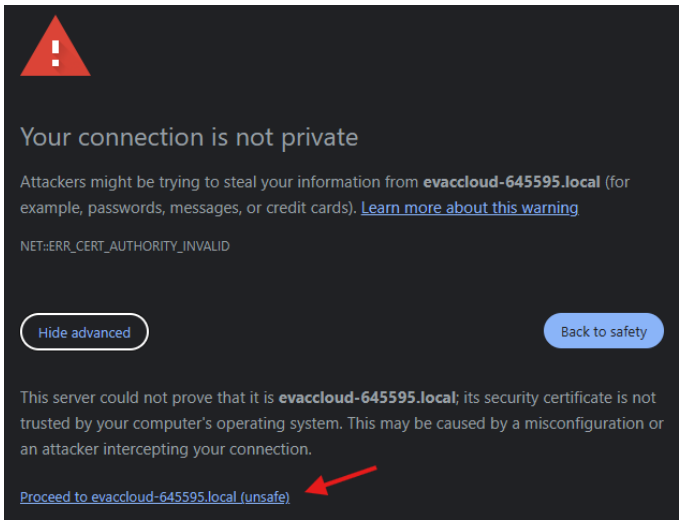

Figure 72. Privacy error 2.

Next, click on the ***"Access..."*** link at the bottom, where the URL entered in the browser will be displayed.

The screenshots shown belong to **Google Chrome**, with other browsers warning windows very similar to those shown here will be displayed.

After you have followed all the steps described above, The login page of the local website of the EVAC Cloud device will finally be displayed:

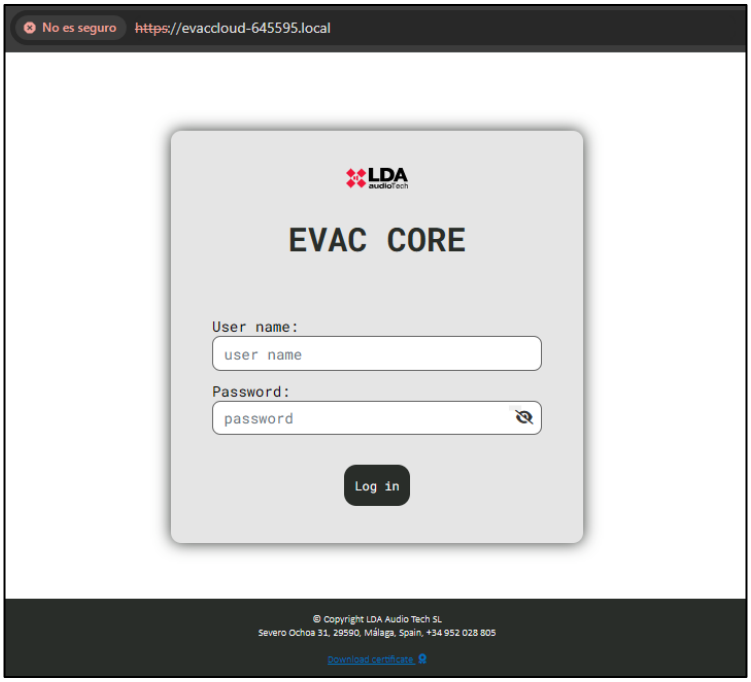

Figure 73. Login page.

At the bottom or footer of the website page, a link is shown with the text ***"Download certificate"***:

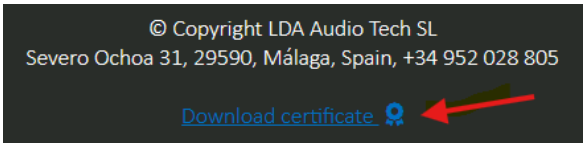

Figure 74. Download certificate.

By clicking on this link, you will proceed with the download of the certificate that, once installed, will allow secure access to the local website.

Once downloaded, you must go to the folder where the certificate file has been saved and double-click on it to start the certificate installation wizard:

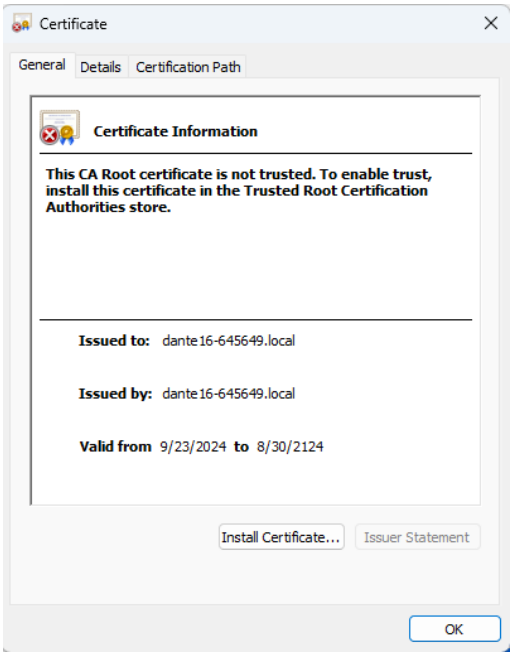

Figure 75. Certificate.

Click on the "***Install certificate...***" button and select the "**Current user**" *option in the* "**Storage location**" *section* and click on the "***Next***" *button*:

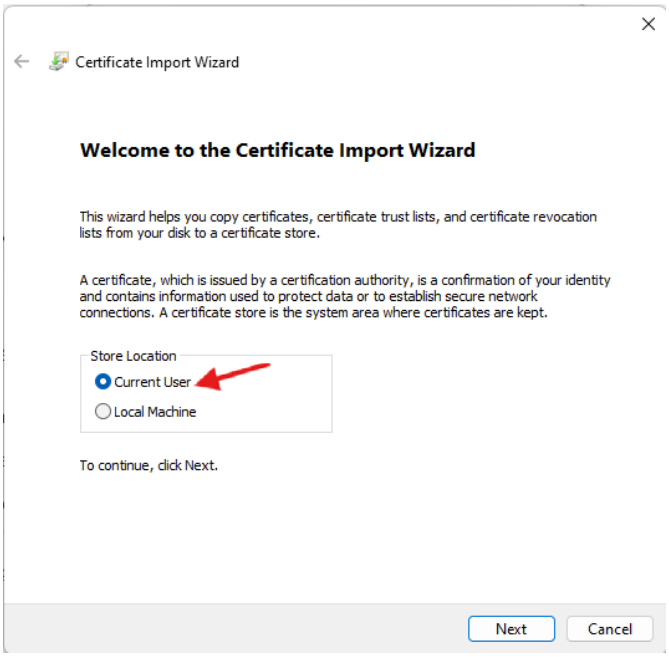

Figure 76. Certificate installation wizard.

Select the option "**Place all certificates in the following storage**" and click the "**Browse...**" button:

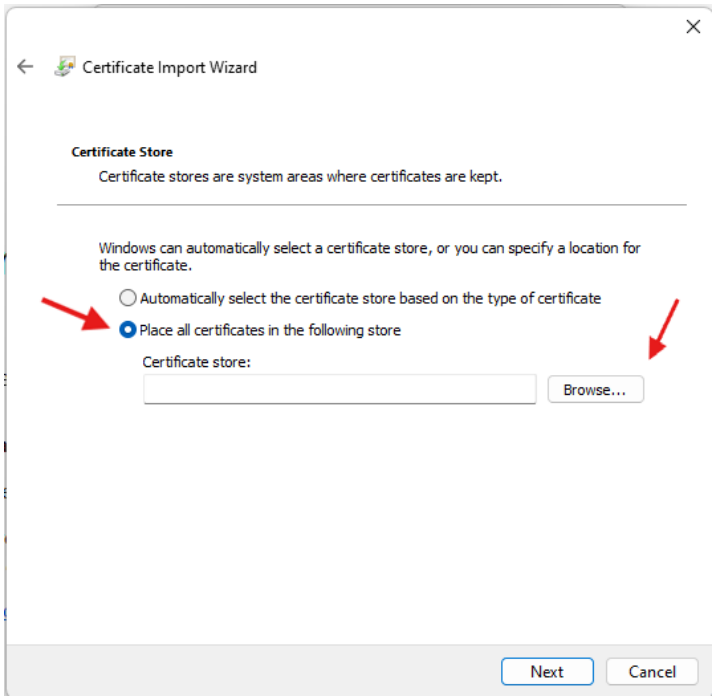

Figure 77. Certificate store.

Select the "**Trusted Root Certification Authorities**" option in the new window and click the "**OK**" button:

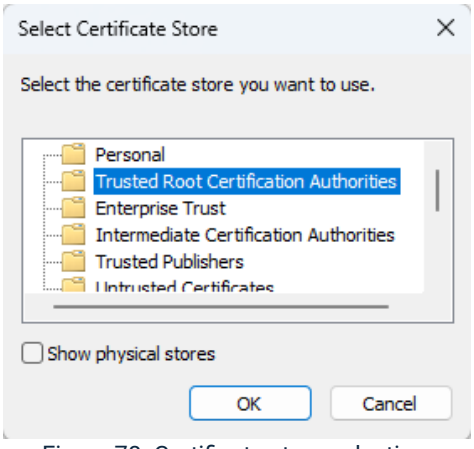

Figure 78. Certificate store selection.

The pop-up window will close, and you would have to press the "**Next**" button:

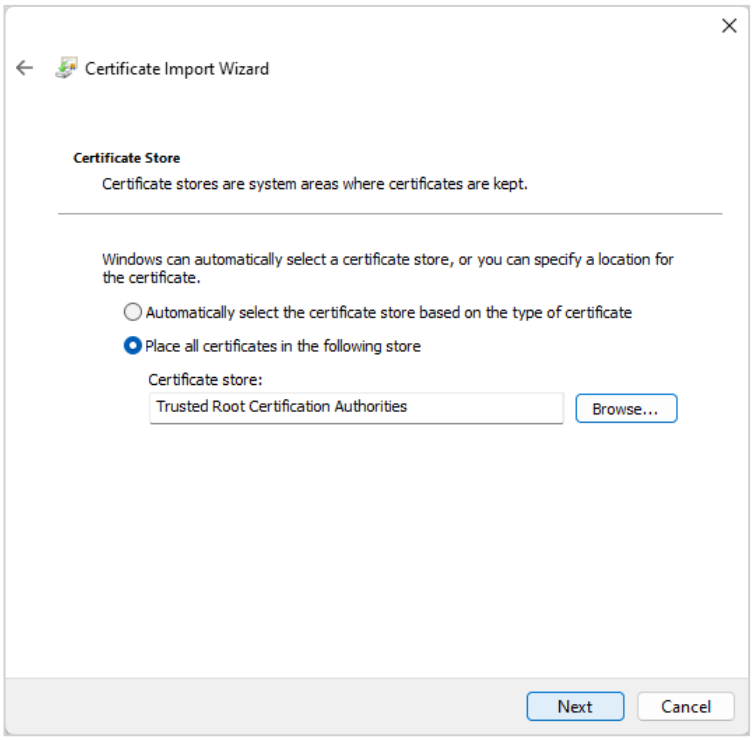

Figure 79. Certificate store acknowledgment.

Finally, you must click on the "**Finish**" button:

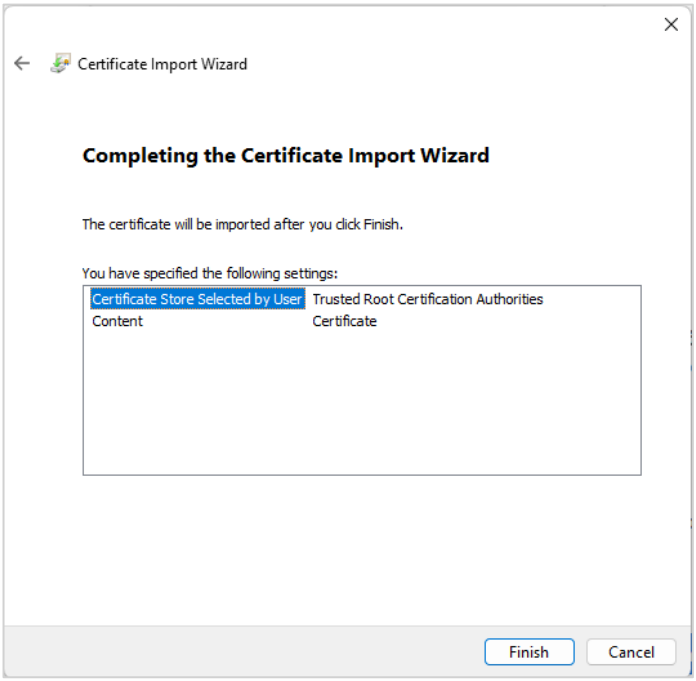

Figure 80. Completing the Install Certificates Wizard.

Confirm the installation by pressing the "**Yes**" button:

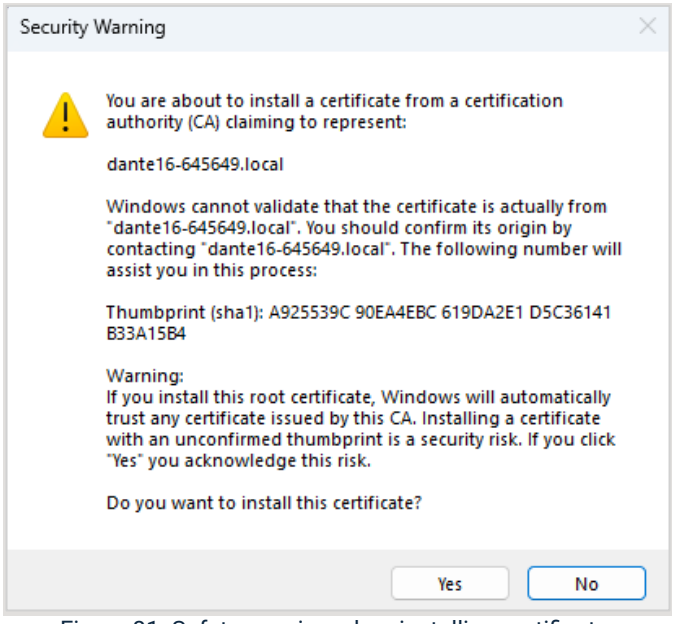

Figure 81. Safety warning when installing certificate.

If everything has gone well, the confirmation message will appear:

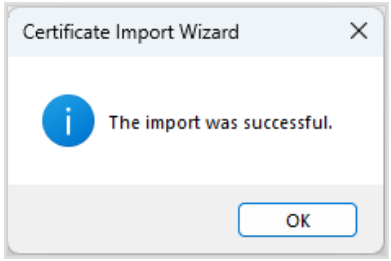

Figure 82. Certificate installation confirmation.

It is advisable to restart the web browser by closing all its windows. Once restarted, reloading the device's local website will no longer display the notice that the website is not secure:

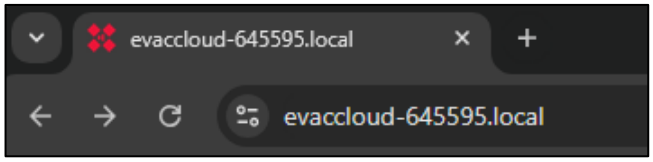

Figure 83. URL to access the website.

INDEX OF ILUSTRATION