

EVAC^{⚙️} Control User Manual

EVAC CONTROL PLATFORM

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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 provided 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 alarm system. Designed for environments that require greater visibility and control, Evac Control allows both local and remote operation, with a fully customizable and usable user experience.

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

1.1 Access

Local access:

From the EVAC Settings login screen, access to the EVAC Control web application is available. The user must enter local credentials to log in to the application.



Figure 1. Direct access to the EVAC Control website.

CrossApp navigation access:

EVAC Control can be accessed through direct navigation from other ecosystem applications, such as www.evacccloud.com or www.evacccontrol.com. In this case, as the user already has an active cloud session, access is performed as an integrated process between applications, without requiring local credentials.

1.2 Login

After accessing the application locally, the login screen is displayed, where the username and password credentials required for access are requested.

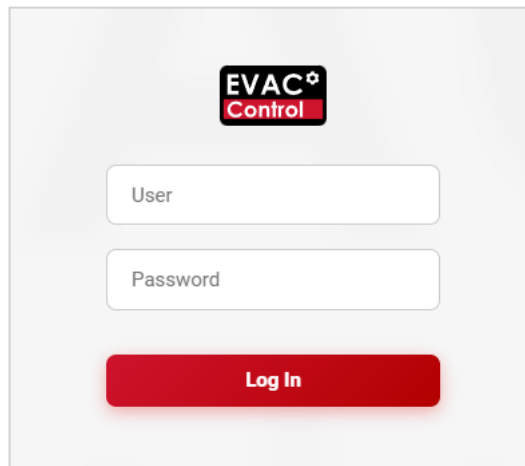


Figure 2. Login

By default, the device has a preconfigured user to access the interface:

- User: **installer**
- Password: **p2daPI=jloq937**

Users with an "installer" profile will be able to create new local users from the EVAC Settings.

2 INTERFACE

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

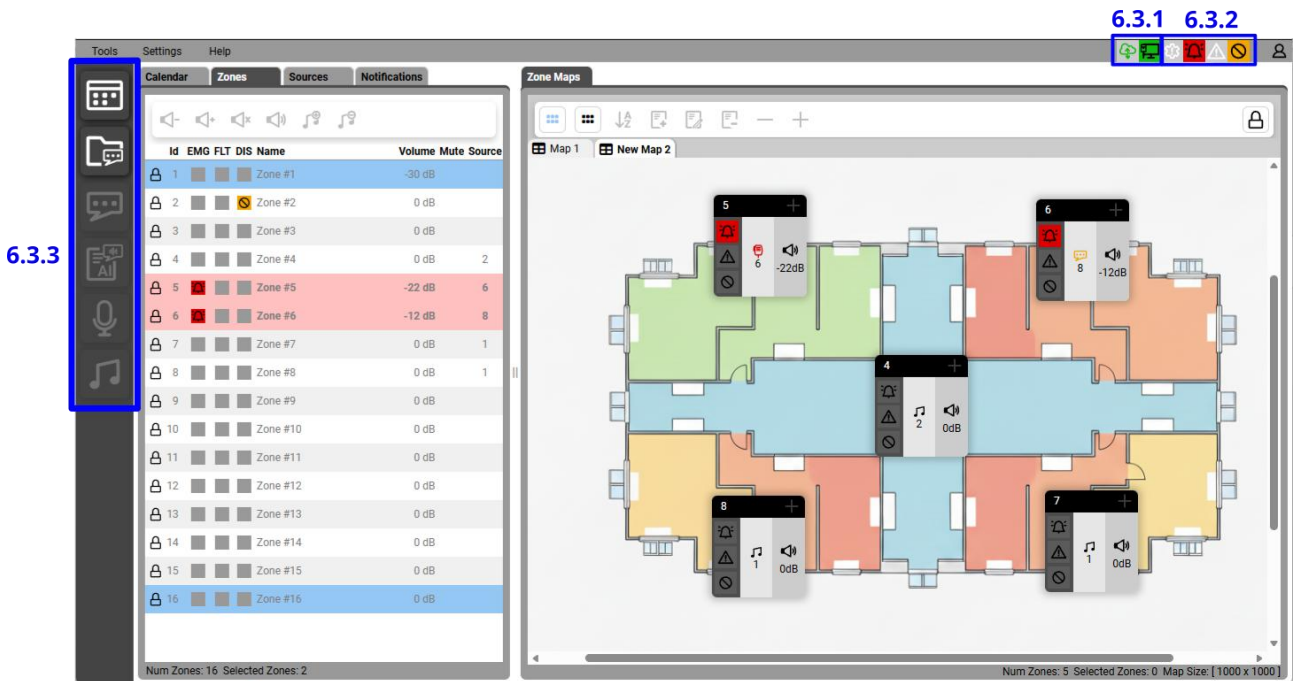


Figure 3. Interface

2.1 Connection States

The EVAC Control device cloud connection state 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, the connection state of the system linked to the EVAC Control environment is displayed.



There is no system linked to EVAC Control



There is connection to the linked system.



There is no connection to the linked system.

2.2 System States

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



PA / PUBLIC ADDRESS

The system is operating in normal PA mode.



EMG/EMERGENCY

The system is in emergency state.



FLT/FAULT

The system is in fault state.



DIS/DISARM

Some system zones are disabled.



CHG/SYSTEM CHANGES

Changes have been made to the system and must be validated.

If the status icon displays a number in its upper-right corner, it means that there are notifications associated with that state that can be viewed in the Notifications panel. See chapter 2.7 Notifications.

2.3 Menu Bar

2.3.1 Tools



Calendar: View, planning and automated execution of preconfigured messages in events scheduled in the EVAC Control calendar.







Pre-recorded Manager: Management of the library of pre-recorded messages stored in EVAC Control for use in calendar and immediate events.



Immediate Pre-recorded Launcher: Allows pre-recorded messages to be launched immediately without the need to create a calendar event.



Immediate TTS Launcher: Generation and playback of pre-recorded messages using the integrated Artificial Intelligence-based Text-to-Speech function.

-  **Immediate VoiceNow Launcher:** Allows immediate playback of voice messages using a microphone input connected to the control device.
-  **Source Router:** Management of audio source routing to PA/VA system zones.
-  **NEO Events:** Allows manual activation of events configured in the NEO/NEO+ system controller, integrated via UDP protocol.
-  **Logs:** View system activity logs.

2.3.2 Settings

- **PA/VA Discover:** Displays the NEO/NEO+ system controllers located on the local network. Allows the system to be added to or removed from EVAC Control.
- **Save Default:** EVAC Control stores the PA system configuration parameters on the connected NEO+ device, ensuring that they are preserved in the event of system restarts or connection loss. This feature is not available for classic NEO systems.
- **Preferences:** Configuration of EVAC Control calendar and TTS preferences.

2.3.3 Help

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

2.4 Calendar

Available only in NEO/NEO+ systems.

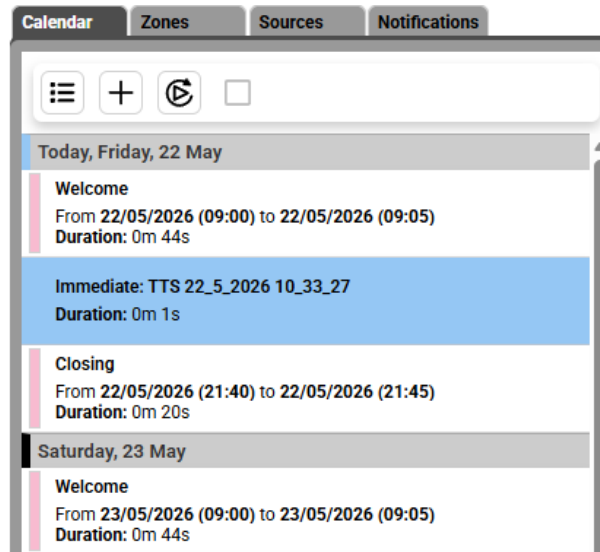


Figure 4. Event Grid

Displays the schedule of calendar events for the next 5 days and the immediate messages during 1 hour. Each event displays its name, playback time window (date and time) and duration.

The upper section contains direct links to the event list and new event creation. For more detailed information about event generation, see chapter 4.1.1 Calendar.

In addition, immediate events that have already been launched 1 hour since their last execution are displayed. These can be relaunched using the **“Play”** button while they remain active in the list.

To stop an event, whether scheduled or immediate, press the **“Stop”** button to stop its playback.

2.5 Sources

Available only in NEO/NEO+ systems.

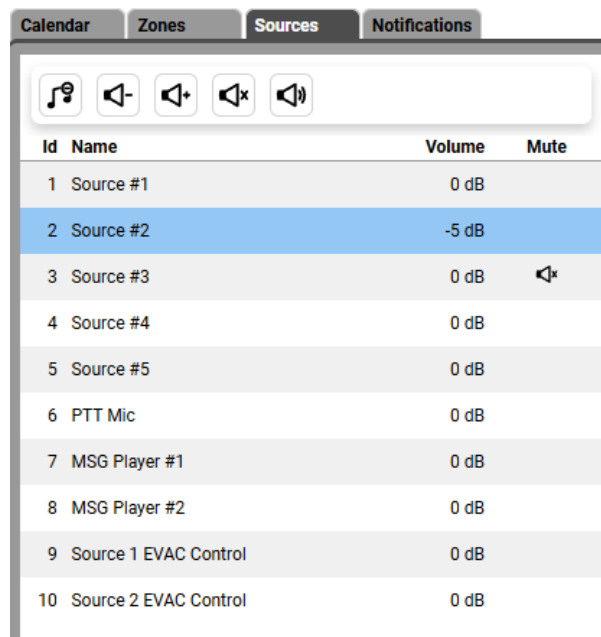


Figure 5. Audio Sources Tab

Displays all available audio sources of the linked system. For more information about audio sources, see chapter 4.4 Sources.

2.6 Zones

Available only in NEO/NEO+ systems.

Id	EMG	FLT	DIS	Name	Volume	Mute	Source
1				Zone #1	-30 dB		
2				Zone #2	0 dB		
3				Zone #3	0 dB		
4				Zone #4	0 dB		2
5				Zone #5	-22 dB		1
6				Zone #6	-12 dB		1
7				Zone #7	-3 dB		1
8				Zone #8	0 dB		1

Figure 6. System Zones Tab

Displays all available zones of the linked system, their status, volume and assigned audio source. For more information about system sources, see chapter 4.5 Zones.

2.7 Notifications

- PA/VA System
 - PA Status
 - Audio Source 2 Muted: Source #2
 - Audio Routed in Zone 3: Zone #3
 - EMG Status
 - EMG State ACTIVE
 - Zone 5: Zone #5
 - Zone 6: Zone #6
 - DIS Status
 - DIS State ACTIVE
 - Zone 2: Zone #2

Figure 7. Notifications tab

Provides detailed information about the system states and the zones affected by each state. For more information about system states, see chapter 2.2

System States .

There are four types of notifications according to their origin: PA system, emergency, fault and disarm.

2.8 Zone Maps

Allows audio zones to be visualized and organized through a graphical representation within a system map. In this way, both control and supervision of the general state of the evacuation system are facilitated.

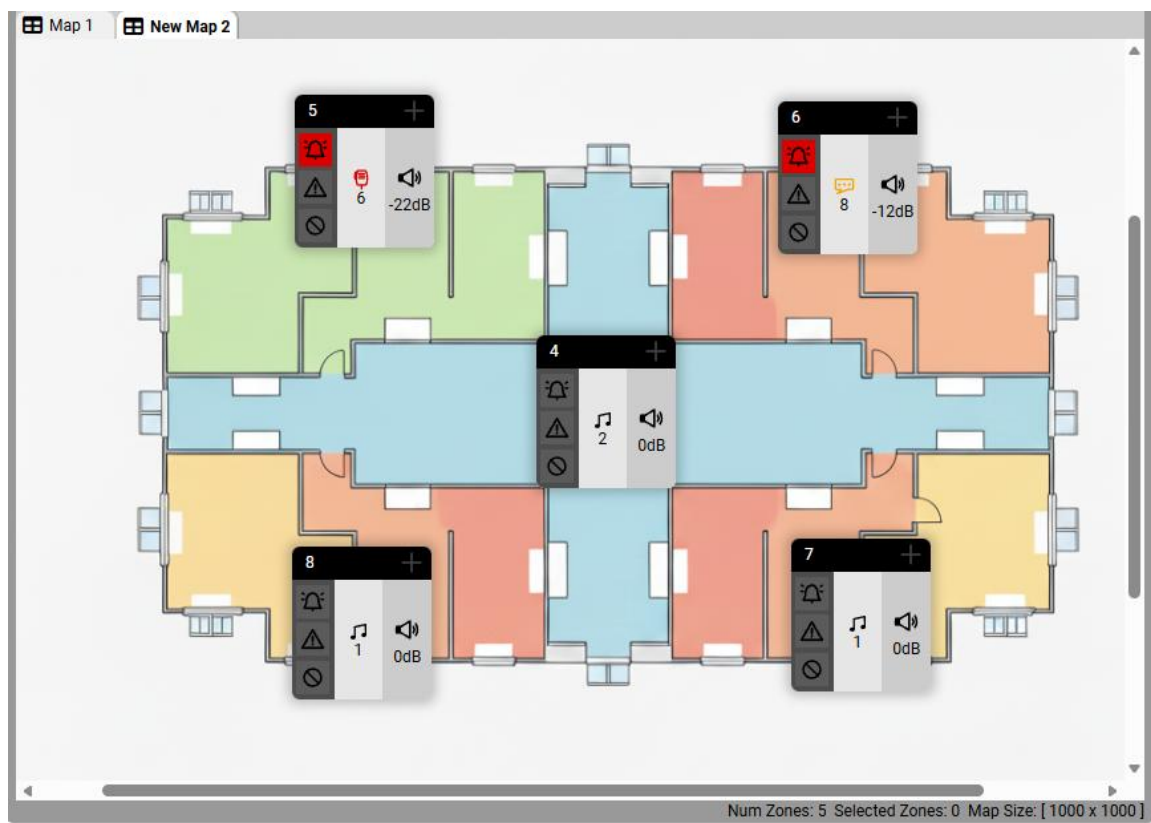


Figure 8. Map

3 CONFIGURATION

3.1 System

The “**PA/VA Discover**” section of the “**Settings**” menu allows the user to locate and manage connected systems within the local network.

The “**Identify**” button allows the selected LDA Audio Tech EN-54 controller to be physically located. When pressed, the physical LEDs of the device will flash, making identification in the real environment easier. Available only in NEO/NEO+ systems.

3.1.1 Add System

To add a system to the EVAC Control environment, the desired controller must be selected and the “**Add System**” button pressed.

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

EVAC Control only allows the management of one system at a time. If a system is already assigned in EVAC Control, it must be removed before adding another one.

3.1.2 Remove System

To remove a system from the EVAC Control environment, the desired controller must be selected and the “**Remove System**” button pressed.

A confirmation message will then appear.

3.2 Preferences

Allows the configuration of EVAC Control calendar and audio mode preferences and the language and voice options of the Text-To-Speech tool.

Press “**Validate**” to apply the changes made or “**Cancel**” to discard them.

3.2.1 Calendar

- **First Day of the Week:** The user can configure the day on which the calendar week starts, choosing between **Sunday** or **Monday**. This option only affects the calendar view format.
- **Enable Calendar:** Enables the use of the system calendar. This option is essential for scheduling and playback of calendar events.

NOTE: To configure the audio mode (**Calendar Audio Mode**), this option must be disabled.

- **Calendar Audio Mode:** EVAC Control allows calendar events to be played back using digital or analog audio transmission:
 - **Digital Audio:** Compatible only through AES67 transmission. It uses **audio channels 1 and 2** of **Stream 31** (IP 239.121.1.100).
If the audio streams are not added as a source in AES67 in NEO+ or it is a system not compatible with AES67 digital audio, it will not be possible to assign digital audio sources.
 - **Analog Audio:** Allows selection of a physical analog input of the system. **Physical sources 1 to 4** will be available for NEO/NEO+ and **Player line out** for generic systems.

In NEO/NEO+ systems, one or two sources can be used at the same time depending on whether “**Two Channels Mode**” is active.

3.2.2 Text-To-Speech

- **Enabled Voices:** Enables the voices that will be used by the TTS tool.
- **Default Voice:** Selects the default narration voice that will be used by the TTS tool.

3.3 System Initialization

When a system is linked for the first time to EVAC Control through the “**PA/VA Discover**” tool, the application automatically generates an initial configuration adapted to the type of connected system.

3.3.1 Default System Configuration

In NEO/NEO+ systems, EVAC Control automatically creates:

- A default map with all available zones of the system.
- Enables management of available zones and sources.

In GENERIC systems, EVAC Control generates:

- A single default map.
- A single fixed zone associated with the system.

After linking to a new system, EVAC Control additionally applies the following default configuration:

- Calendar events are disabled.
- Existing zone routings are removed.
- Digital audio mode is disabled.
- Internal relationships between zones and sources with pre-recorded messages and calendar events are reset.

3.3.2 Persistence Between Systems of the Same Model

When switching between systems of the same type (for example, NEO ↔ NEO, NEO+ ↔ NEO+ or NEO ↔ NEO+), EVAC Control maintains part of the previously existing configuration.

The following elements are preserved:

- Maps.
- Calendar events.
- Pre-recorded messages.
- Text-To-Speech (TTS) preferences.

In the case of audio preferences:

- If the configured sources also exist in the new system, the configuration is maintained.
- If the sources do not match or are not available, EVAC Control automatically applies the corresponding default configuration.

NOTE: When switching between systems of the same type, map zones are not automatically reset. If the new system has fewer zones than the previous one, invalid zones or “ghost zones” may appear in existing maps.

3.3.3 Persistence Between Systems of Different Models

When switching between systems of different models (for example, NEO/NEO+ ↔ GENERIC), EVAC Control completely resets the configuration related to the previously linked system.

In this case:

- All existing maps are deleted.
- Calendar events are deleted.
- Relationships between pre-recorded messages, sources and events are deleted.
- Audio preferences are reset.
- Zone routings are removed.

This reset affects all system users, both local users and cloud users.

NOTE: Once the model change has been performed, the deleted configuration will not be automatically recovered, even if the previous system is linked again afterwards.

3.4 Save Default

Allows a backup copy of the current system state to be saved in the controller. Its purpose is to be able to return to the same configuration in the event of a system or EVAC Control restart, connection loss or power failure.

The “**Save Default**” menu is only available for NEO+ systems from firmware version v03.04.xx.04. It stores the system runtime parameters, that is:

- Current routing of sources and zones.
- Volumes.
- Mute states.
- Active operating configuration of the PA system.

4 USING THE APP

4.1 Tools

4.1.1 Calendar

The EVAC Control calendar event tool allows the creation, scheduling and management of messages that will be automatically played by the system connected to EVAC Control. It is designed to facilitate the playback of automated messages (pre-recorded or TTS) on defined days and times, with the possibility of daily, weekly or monthly repetition.

(a) Add Calendar Event

To create a new event, press the **“Add Event”** button. The event scheduling is divided into three sections:

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

In this section, the event name and description are defined. They can be categorized using color labels.

By unchecking the **“Enable”** option, the event can be created in an inactive state.

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

- **Messages:** A selection of messages that will be played in the event.

Two lists appear in this window:

The first contains all pre-recorded messages stored on the device. It contains a direct access to the **“Pre-recorded manager”** tool. Press the **“Add”** button to select the message.

The second displays the selected messages. The maximum possible messages that can be used in an event is 10 min 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 one is deleted or disabled.

(b) Edit Calendar Event

To edit an event, access the **“Event List”** window. See next section 4.1.1(c) List of events.

Select the desired event and press the **“Edit”** button. The steps to modify the event will be the same as those described in the previous section, see 4.1.1(a) Add Calendar Event.

(c) 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 it is disabled, the event will not be available and will not be played.
- **Edit:** Allows the selected event to be edited. Editing follows the procedure described in the previous section.

- **Duplicate:** Opens the creation window of a new event with the options already preconfigured from the original event.
- **Details:** Displays all relevant event information, including general characteristics, time planning, event state, assigned zones and messages.
- **Select All Events:** Selects all events to perform batch actions.
- **Deselect all Events:** Unselects all selected events.
- **Sort by summary:** Sorts the event list alphabetically.
- **Sort by color:** Sorts the event list by color label.
- **Filter Events:** Filters events by color label and frequency.
- **Delete Events:** Permanently deletes the selected event or events.

4.1.2 Pre-recorded Manager

EVAC Control allows the management of pre-recorded messages and the generation of new messages using TTS (Text to Speech) technology. These messages are used in the system calendar events and in the immediate message launcher. See section 4.1.1 Calendar.

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

- **Select All:** Selects all messages to perform batch actions.
- **Deselect all:** Unselects all selected messages.
- **Add Message:** Allows new audio files to be uploaded to the EVAC Control device from the local computer. File names must only contain alphanumeric characters and the symbols hyphen "-", underscore "_" and parentheses "()". It is limited to 64 characters.
- **Delete message:** Deletes the selected messages from the list.
- **Open TTS:** Shortcut to the TTS tool to generate voice messages from text.
- **Preview:** Allows a preview of the message.

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

4.1.3 Immediate Pre-recorded Launcher

This tool allows pre-recorded messages to be launched without the need to create an event beforehand. This message can be reused for 1 hour since its last execution through the **"Calendar"** window, see section 2.4 Calendar.

- **Messages:** Selection of messages played in the immediate message.

Two lists appear in this window:

The first contains all the pre-recorded messages stored on the device. It contains a direct access to the **"Pre-recorded manager"** tool. Press the **"Add"** button to select the message.

The second displays the selected messages. The maximum possible messages that can be used in an event is 10 min or 32 messages.

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

4.1.4 TTS Launcher

The TTS (Text to Speech) tool allows personalized messages to be generated, converting text into speech in multiple languages using AI, automatically, and immediately playing them through the selected zones. This message can be reused for 1 hour since its last execution through the “**Event grid**” window, see section 2.4 Calendar.

It offers the possibility of working with multiple languages and different types of voices, with more than 50 language options. To establish the default TTS configuration, see configuration chapter 3.2.2 Text-To-Speech.

- **Message:** Input field for the text message that will be converted to speech. It is limited to 3000 characters.
- **Message Name:** Name of the generated audio file. It only supports alphanumeric characters and the symbols hyphen “-”, underscore “_” and parentheses “()”. It is limited to 64 characters.
- **Translate:** Selects the automatic translation of the message to the selected languages.
- **Language:** Selection of the message translation language.
- **Preview:** Allows a preview of the message.

4.1.5 VoiceNow

The VoiceNow tool allows voice messages to be recorded from the computer audio input and immediately played through the selected zones. This message can be reused for 1 hour since its last execution through the “**Event grid**” window, see section **¡Error! No se encuentra el origen de la referencia. ¡Error! No se encuentra el origen de la referencia..**

- **VoiceNow:** Audio message recording. Allows a name to be assigned to the recording and a preview of the message before launching it.
- **Zones:** Selection of zones through which the immediate message is played.

NOTE: Audio messages will have a maximum duration of 10 minutes.

4.1.6 Source Router

Available only in NEO/NEO+ systems.

Allows a PA/VA audio source from those available in the NEO/NEO+ system to be routed to its outputs.

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

4.1.7 NEO Events

Available only in NEO/NEO+ systems.

EVAC Control allows UDP events of the NEO/NEO+ system to be launched from the NEO Events tool.

When the NEO/NEO+ system added to EVAC Control has UDP events available, these will automatically appear 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 queue them for playback.

4.1.8 Logs

Available only in NEO/NEO+ systems.

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 obtain the information.

It displays the date and time of the registered event, the user and profile that generated the log entry and a description of it.

4.2 Priority Management

EVAC Control can execute different types of audio events on the connected system. When several events coincide in time or try to be played on the same zones, a priority hierarchy is applied to determine which event should have preference.

The types of events that can occur in the application in priority order are:

1. NEO/NEO+ system events
2. Immediate events
3. Scheduled calendar events

4.2.1 NEO/NEO+ System Events

These are the events configured directly in the NEO/NEO+ system and launched from EVAC Control through the **NEO Events** tool. These events communicate with the controller via UDP protocol and have the highest priority within the playback hierarchy.

When a NEO/NEO+ system event is activated, it can prevail over any other event in progress managed from EVAC Control.

4.2.2 Immediate Events

These are the events manually launched from the EVAC Control immediate launch tools, such as:

- **Immediate Pre-recorded Launcher**
- **Immediate TTS Launcher**
- **Immediate VoiceNow Launcher**

These events do not require previous scheduling in the calendar and are executed directly on the selected zones.

Immediate events have priority over scheduled calendar events. However, if an immediate event needs to be played on a zone where there is an active calendar event, the immediate event will be queued until the active calendar event finishes.

4.2.3 Scheduled Calendar Events

These are the events created from the Calendar tool and configured to be played automatically on a specific date, time and recurrence.

These events have the lowest priority. They are only played if the necessary zones and sources are available and are not being occupied by events or sources of higher priority.

4.3 Maps

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

Here it is possible to organize the zones through maps so that their status monitoring is easy and intuitive.

This map editing will be customized for each user and the changes will only take effect in the active profile.

4.3.1 Add map

To add a new map, press the **"New Map"** button, which will generate a new empty tab without added zones.

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

4.3.2 Edit map

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

The customizable options are:

- **Name:** Allows the current map to be renamed.
- **Height/Width:** Defines the dimensions of the map workspace.
- **Image:** Allows a local image to be uploaded as the map background.

4.3.3 Delete map

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

NOTE: When a map with a background image and zones is deleted, it will not be possible to recover its previous configuration.

4.4 Sources

Available only in NEO/NEO+ systems.

Allows management of all 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 of the linked system controller.
- **Source 5:** Manages the audio of the ACSI bus when there are ACSI devices connected to the NEO/NEO+ system controller. Otherwise, it remains as a physical analog audio input of the controller.
- **Source 6:** PTT microphone of the NEO/NEO+ system controller.
- **Source 7 and 8:** Players 1 and 2 respectively of pre-recorded messages of the NEO/NEO+ system controller.
- **Sources 9 onwards:** Digital audio sources configured in the system. Cobranet for NEO systems and AES67 for NEO+ systems.

Next to each source, its customized name, volume in dB and “**Mute**” status are displayed.

4.4.1 Edit Sources

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

- **Unroute Source:** Removes 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 or remove a source from a zone, see sections 4.5.2 Edit zones and 4.1.6 Source Router.

4.5 Zones

Available only in NEO/NEO+ systems.

They represent the physical audio outputs of the system to which the audio sources are directed. These can be visually reorganized within the maps.

To begin editing zones on the map, press the “**Unlock layout**” button.

4.5.1 Add Zones to Map

When a new map is created, it appears empty. To add zones to the map, the zones must first be selected within the list and then the “**Add**” button in the map zones menu must be pressed. The zones will be added to the selected map, organized from lowest to highest.

The zones placed on a map can be moved or reorganized to adapt to a plan or visual scheme.

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

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

4.5.2 Edit zones

Next to each zone, its active status, customized name, volume in dB, “**Mute**” status and assigned audio source are displayed.

The upper 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 audio.
- **Unmute:** Unmutes the previously muted audio output.
- **Route Source:** Opens the list of available sources to assign to the selected zones.
- **Unroute Source:** Removes the source assigned to the selected zones.

4.5.3 Remove Zones from Map

To remove zones from the map, the zones must first be selected within the list or on the map and then the "**Remove Zones**" button in the map zones menu must be pressed.

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

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