EVAC Cloud

User's Manual

EVAC CLOUD CONNECT

Remote connection application for EVAC Cloud systems

LDA audioTech

INDEX

1 INTRODUCTION

EVAC Cloud Connect is an application that allows remote connections to be established with EVAC devices registered in the EVAC Cloud platform (www.evaccloud.com)

Once the connection with the EVAC Core device is established, we will have the possibility to initiate UDP or TCP communications with endpoints located on its local network (LAN). These remote endpoints will be defined by an IP address on the EVAC system's local network (LAN), a port and the communications protocol to be used.

The connection endpoints will correspond to:

- LDA devices physically detected on the local network (LAN) of the EVAC Core system using the LDA Discover v1 protocol.
- Manually configured endpoints on the EVAC Core system configuration web page. These can be used to provide remote access to LDA devices not found using the LDA Discover v1 protocol, or to communicate with third-party devices or applications.

NOTE: Illustrations in this manual may differ from the latest public version of EVAC Cloud Connect available on the LDA Audio Tech Support website.

1.1 Prerequisites

For the correct functioning of EVAC Cloud Connect, it is essential to run it under the Windows 11 operating system or later.

1.2 Download and Installation

The application is available on the official LDA Audio Tech Support website. It can be downloaded through the following link: Support - LDA Audio Tech

The application is distributed as a ZIP file. Extract the content and run the .exe file. No additional installation is required.

2 OVERVIEW

2.1 Access

When launching the application, you may see the following notification:

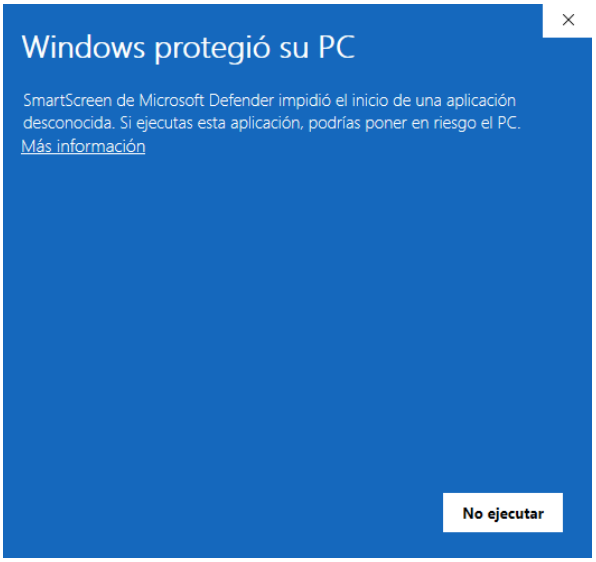

Figure 1. Windows SmartScreen notification

This notification is due to the system does not recognizing the file signature. To continue running, click on "More info", and select "Run anyway".

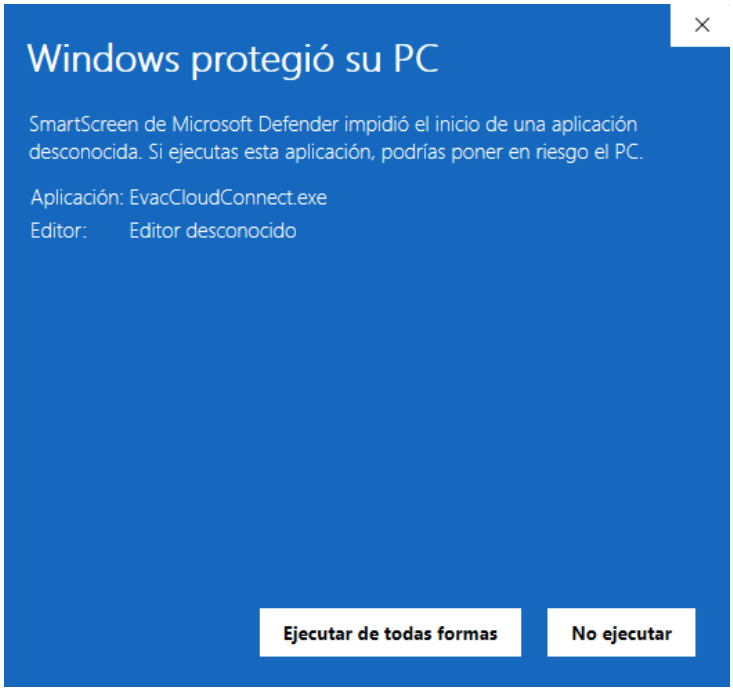

Figure 2. SmartScreen Notification – More Options

After launching the application, the login screen is displayed. Enter the credentials of a user registered on the EVAC Cloud platform (evaccloud.com).

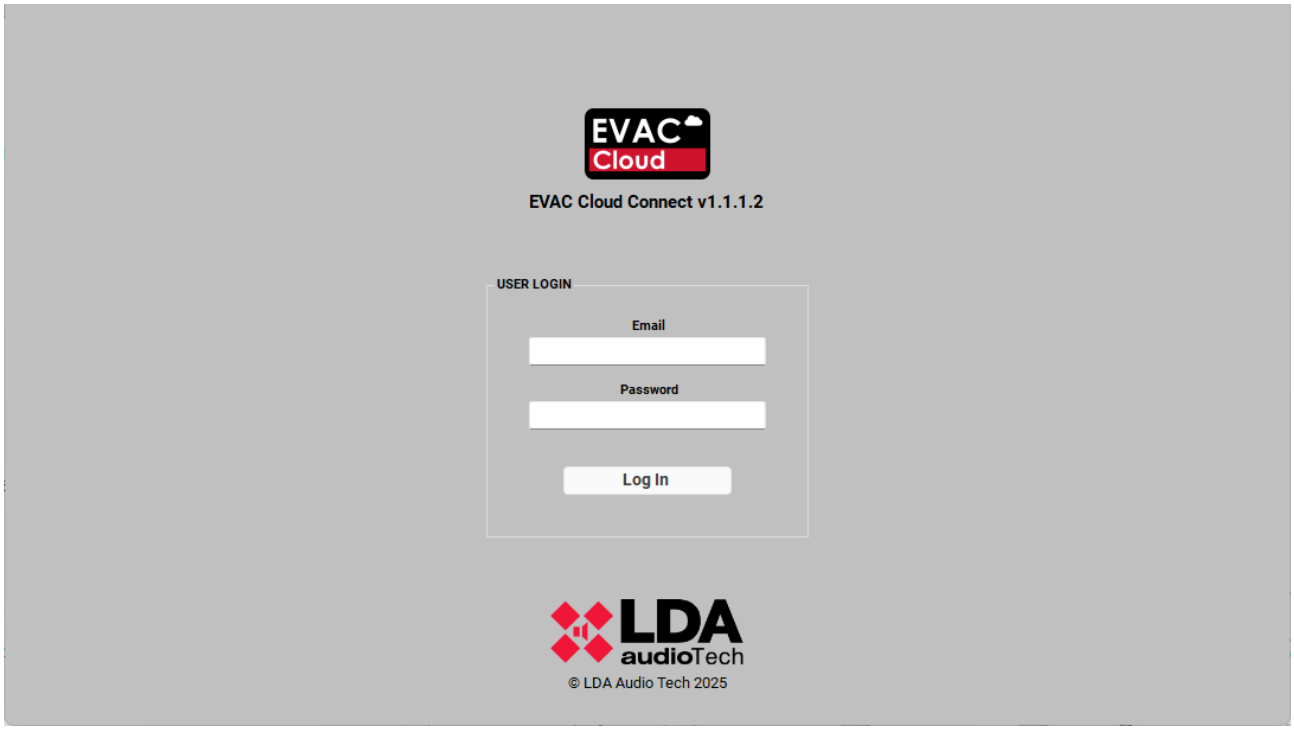

Figure 3. User authentication

2.2 Profile and devices

After logging in, a screen displaying the profiles associated with the account is shown. For more information about profiles, refer to the EVAC Cloud platform manual.

In case the user only has a single profile associated, the EVAC devices window will appear after login, Figure 5.

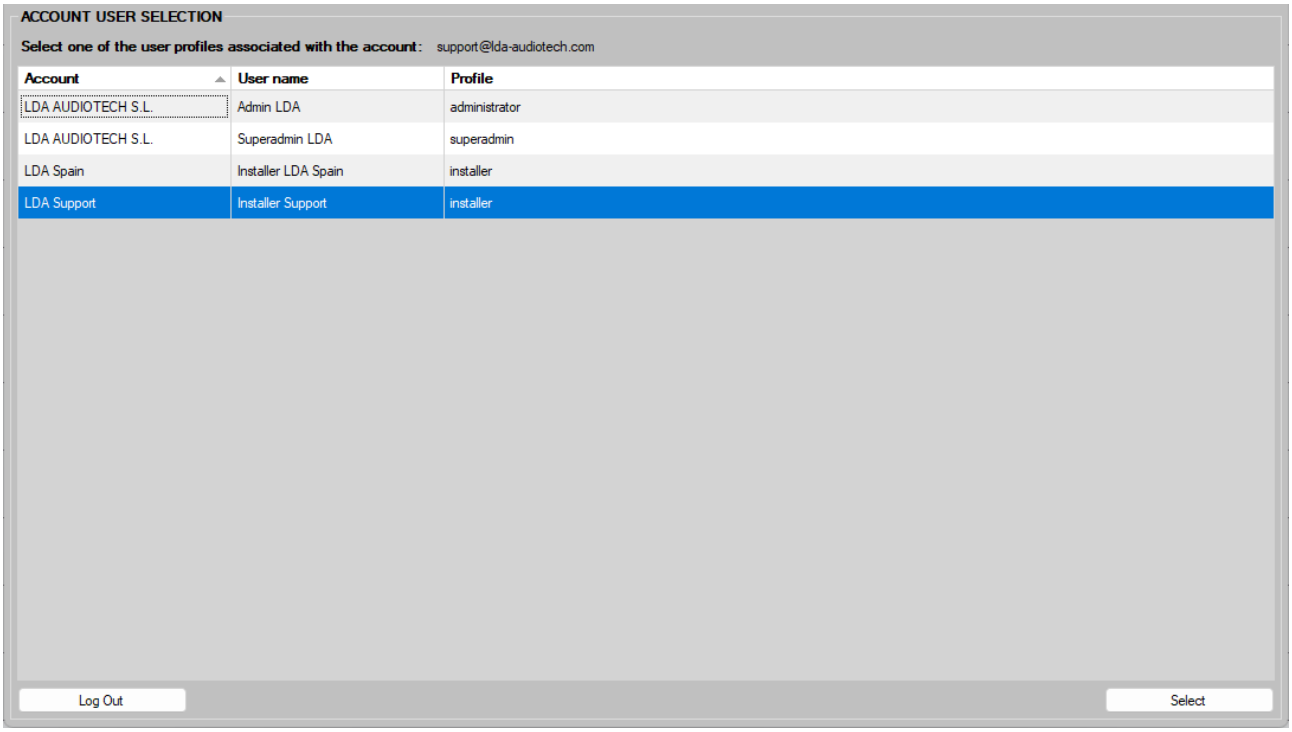

Figure 4. Profile selection

- **Account:** The account to which the user belongs.
- **User name:** Username of the user.
- **Profile:** Profile associated with the user.
- **Log Out:** Ends the current session and returns to the login screen.
- **Select:** User Profile Selection.

After selecting a profile, the EVAC devices associated with it are displayed.

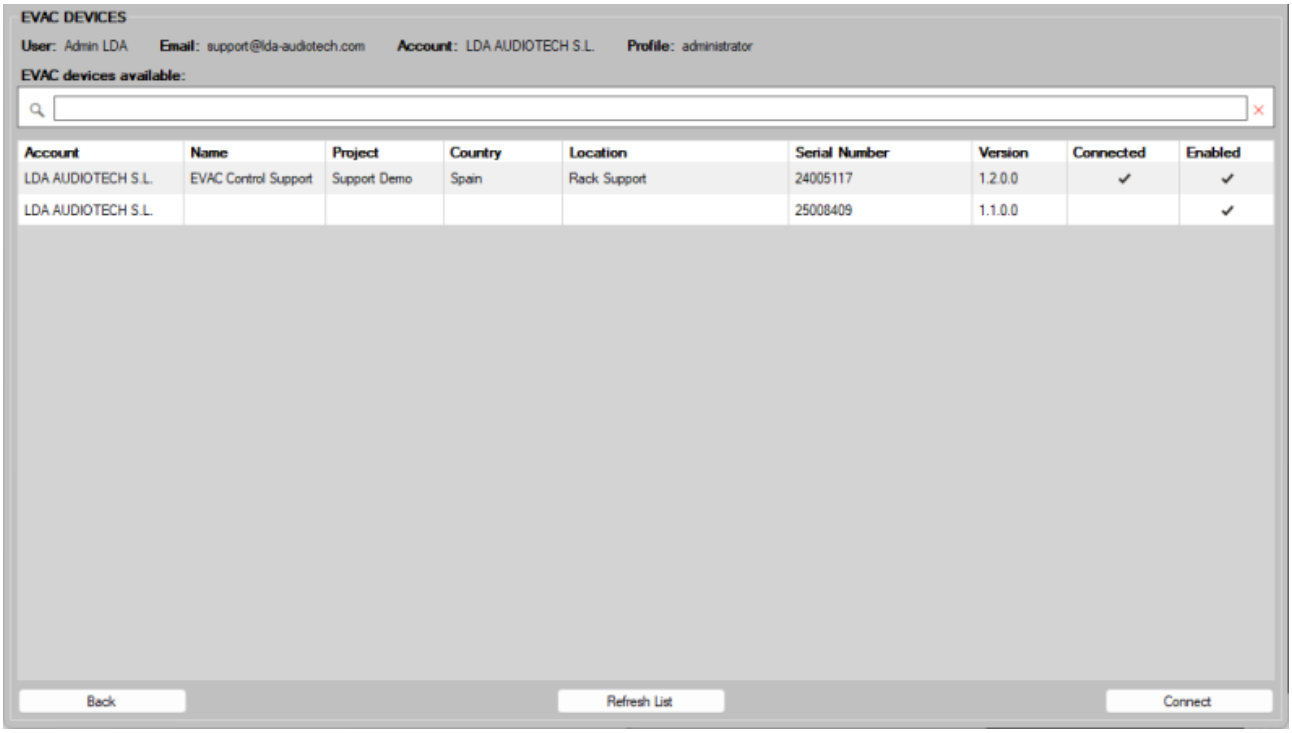

Figure 5. EVAC System Selection

At the top of the window, the authenticated username and profile are shown.

The central area displays a list of EVAC systems, with information organized into the following columns:

- **Account:** Account to which the device belongs.
- **Name:** Device name.
- **Project:** Assigned project.
- **Country:** Country of installation.
- **Location:** Specific location of the system.
- **Serial Number:** Device serial number.
- **Connected:** Indicates whether the device is currently connected to the LDA Audio Tech cloud. This is refreshed approximately every 15 minutes.
- **Enabled:** Indicates whether the device is enabled via the EVAC Cloud platform to establish a remote connection.

At the bottom there are three buttons with which we can perform the following actions:

- **Back:** Return to the profile selection window.
- **Refresh List:** Updates the EVAC devices list.
- **Connect:** Starts the connection with the selected EVAC system. A connection can also be initiated by double-clicking the device

If the connection cannot be established with the selected EVAC system, an error message is displayed.

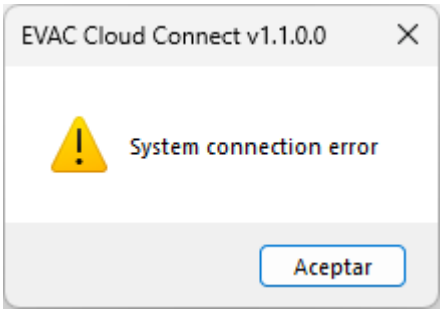

Figure 6. Failed connection to EVAC system

NOTE: Remote connection to EVAC systems is allowed for users with **Installer profile or higher**. Unauthorized profiles will result in an authentication error.

3 APPLICATION USAGE

After a successful connection to an EVAC device, the main screen is displayed. It is divided into two sections: a left panel with system information and a central panel showing available devices.

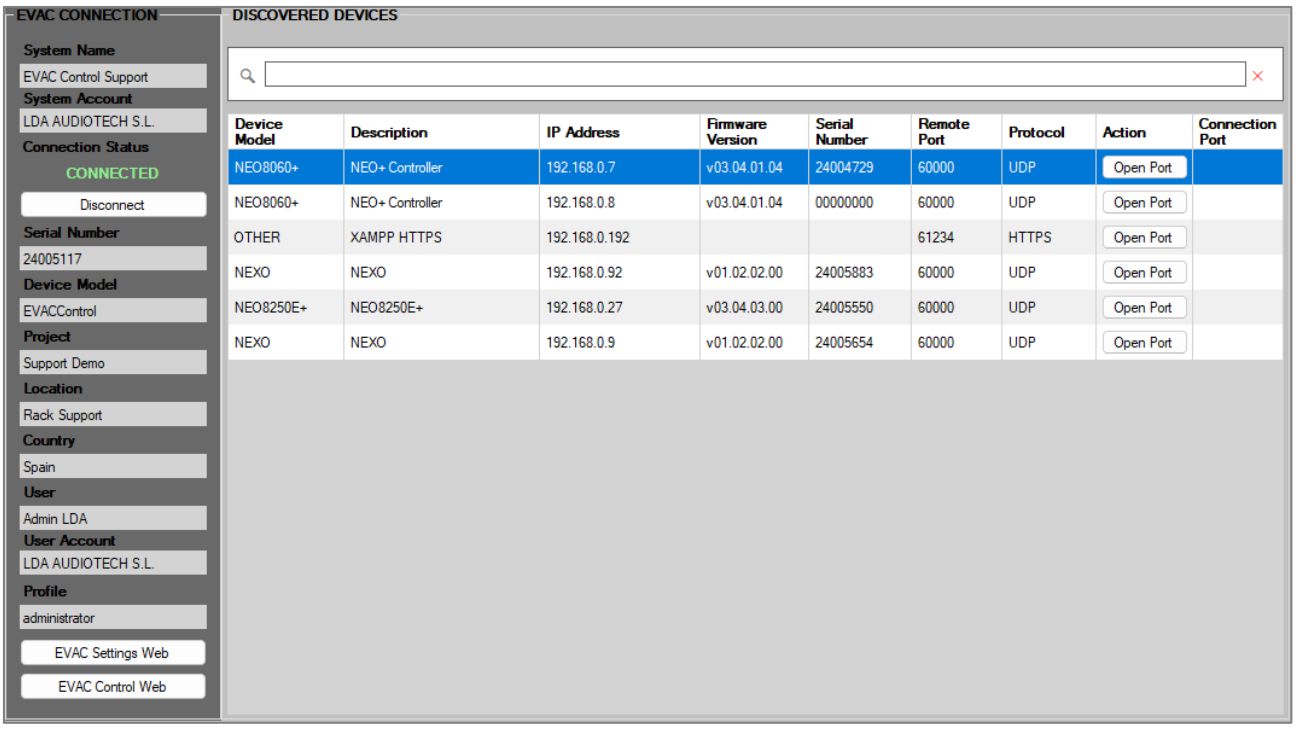

Figure 7. Connection window for an EVAC system

Left panel: EVAC CONNECTION.

This panel displays general system and user information, along with some available actions:

- **System Name:** EVAC device name.
- **System Account**: Account associated with the device.
- **Connection Status:** EVAC connection status; "Connected" in green / "Disconnected" in red.

  Below is the "Disconnect" button, which ends the connection and returns you to the previous screen.
- **Serial Number:** Device serial number.
- **Device Model:** Device model. The models that support remote connections are **EVAC Cloud** and **EVAC Control**.
- **Project:** Assigned project.
- **Location:** Specific location of the device.
- **Country:** Country if installation.
- **User:** Authenticated user account with which we have made the connection with the system.
- **User Account:** Account associated with the user profile.
- **Profile:** Profile of the authenticated user.

Web access shortcuts:

- **EVAC Settings Web:** Opens the device configuration website. Authentication on this website is performed automatically using the logged-in user account, and sessions are valid for a maximum of 24 hours.

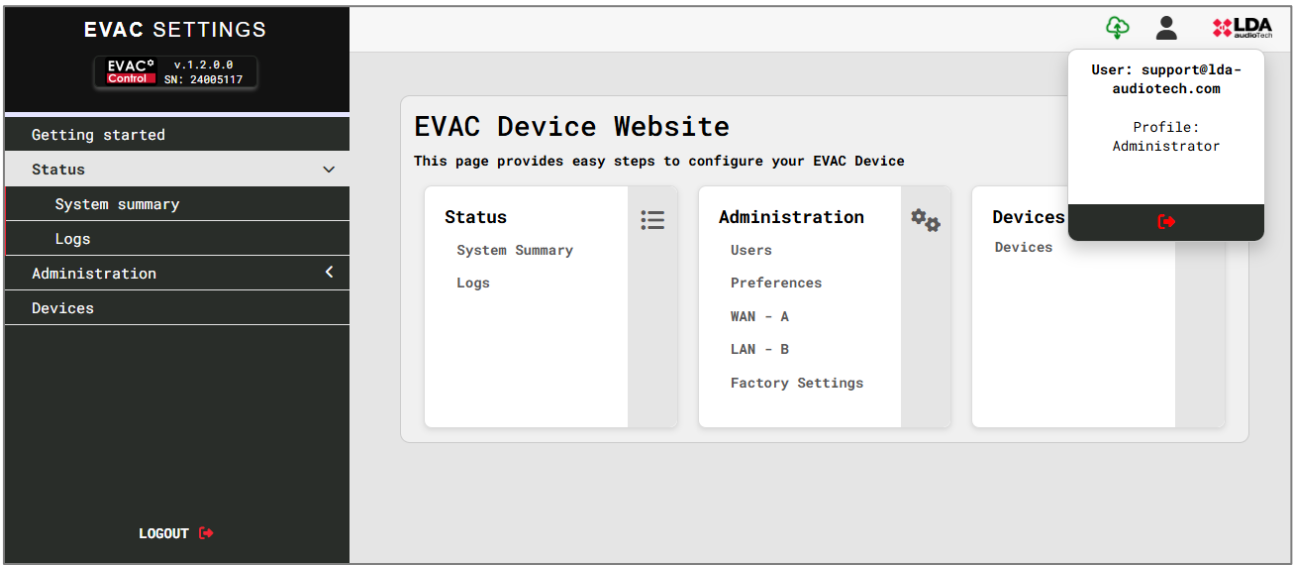

Figure 8. EVAC configuration webpage loaded remotely

- **EVAC Control Web:** Available only for EVAC Control devices. Provides access to the EVAC Control web interface under the same conditions.

Figure 9. EVAC Control webpage loaded remotely

Central panel: DISCOVERED DEVICES

This section displays devices and connection endpoints available on the EVAC system LAN. These include automatically discovered LDA devices and endpoints manually configured in the EVAC Settings website.

The information is organized as follows:

Device Model	Description	IP Address	Firmware Version	Serial Number	Remote Port	Protocol	Action	Connection Port
NEO8060+	NEO+ Controller	192.168.0.7	v03.04.01.04	24004729	60000	UDP	Open Port	
NEO8060+	NEO+ Controller	192.168.0.8	v03.04.01.04	00000000	60000	UDP	Open Port	
OTHER	XAMPP HTTPS	192.168.0.192			61234	HTTPS	Open Port	
NEXO	NEXO	192.168.0.92	v01.02.02.00	24005883	60000	UDP	Open Port	
NEO8250E+	NEO8250E+	192.168.0.27	v03.04.03.00	24005550	60000	UDP	Open Port	
NEXO	NEXO	192.168.0.9	v01.02.02.00	24005654	60000	UDP	Open Port	

Figure 10. Discovered devices and endpoints

- **Device Model:** Device model or connection point. For LDA devices, whether detected automatically or configured manually, the model is displayed (for example, NEO8060). For other devices or connection points, "OTHER" appears.**Description:** Device description or user-defined text.
- **IP Address:** IP address on the local network.
- **Firmware Version:** Firmware version. Displayed only for devices automatically discovered.
- **Serial Number:** Serial number. This will only be displayed for devices that are automatically detected.
- **Remote Port:** Communication port on the local network.
- **Protocol:** Communication protocol. The possible options are: UDP, TCP, HTTP and HTTPS.
- **Action:** Opens or closes a local port for remote access.**Connection Port:** Displays the assigned local port when a connection is active. In any other case, it will appear blank.

3.1 Opening a Remote Connection port

To start a remote communication with a device or connection endpoint, press the **"Open Port"** button corresponding to it in the "DISCOVERED DEVICES" list.When this action is performed, the application assigns a local connection port randomly and displays its value in the **"Connection Port"** column. This port is used in the client application to establish the communication.

Device Model	Description	IP Address	Firmware Version	Serial Number	Last Seen	Remote Port	Protocol	Action	Connection Port
OTHER	XAMPP HTTP	192.168.0.192			11:52:09	61234	HTTP	Close Port	58703
NEO4250E	NEO Extension	192.168.0.56	v02.42.05.00	56565656	11:52:09	60000	UDP	Close Port	60285
OTHER	XAMP HTTPS	192.168.0.192			11:52:09	61235	HTTPS	Open Port	
NEO8060	NEO Controller	192.168.0.40	v02.42.01.42	40404040	11:52:09	60000	UDP	Open Port	
OTHER	Hercules	192.168.0.192			11:52:09	61236	TCP	Close Port	58704

Figure 11. Devices and connection endpoints with open ports for remote connections

Right-clicking on this cell opens a context menu with the following options:

- **Copy Connection Port**: copies only the connection port number.

- **Copy Connection Endpoint**: copies the full address, combining the localhost address with the connection port.
    - **TCP and UDP:** 127.0.0.1:58703
    - **HTTP:** http://127.0.0.1:58703
    - **HTTPS:** https://127.0.0.1:58703

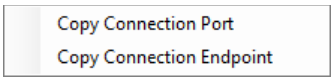

Figure 12. Context menu to copy port or remote connection string

If no data transmission is detected for approximately one minute after opening the port, the communication channel closes automatically. In this case, the current port must be closed and a new one must be opened to start a new remote communication.

3.2 Closing a Remote Connection port

Click the "**Close Port**" action button in the corresponding row to end an active connection.

This closes the local port and immediately stops any ongoing communication associated with that point.

3.3 Loss of connection with an EVAC device

If the connection with the EVAC device is lost for any reason, a message is displayed on screen indicating the loss of connection:

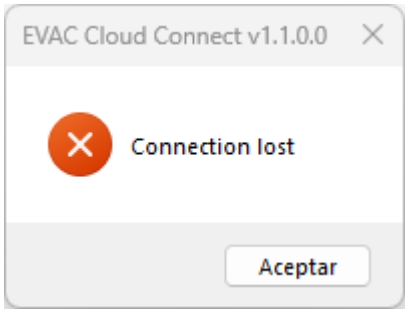

Figure 13. EVAC system connection loss message

Pressing **"Accept"** returns the application to the system selection screen.

INDEX OF FIGURES