

KRAMER



USER MANUAL

MODEL:

KRAMER NETWORK

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Introduction

Welcome to Kramer Electronics! Since 1981, Kramer Electronics has been providing a world of unique, creative, and affordable solutions to the vast range of problems that confront video, audio, presentation, and broadcasting professionals on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better!

This online user manual accompanies the **KRAMER NETWORK** application software. Download up-to-date Kramer user manuals and Installation guides from the Internet at this URL: [www.kramerav.com/manual/Kramer Network](http://www.kramerav.com/manual/Kramer_Network).



This user manual complies with Kramer Network 2.6. Some features, developed in later versions, may not be reflected in this document.

Getting to Know KRAMER NETWORK

KRAMER NETWORK is an IP-based enterprise management software platform for AV networks. Using any laptop, PC or tablet, **KRAMER NETWORK** lets AV/IT Administrators easily configure, route, control, and manage Kramer Pro AV devices, room environments, and IP streaming devices from a single point in the network via a user-friendly web-based interface.

KRAMER NETWORK's scalability is unique in the world of AV/IT convergence with its flexible architecture and smart GUI, making managing a network of hundreds of ports as easy as handling a sports bar or retail facility.

KRAMER NETWORK can be installed on standard, enterprise, virtual or cloud servers for easy management and control of the entire AV and IP product range, as well as legacy AV, Dante™ and other devices.

The platform features enhanced security with intuitive user-access management of specific audio or video sources, rooms and predefined scenarios as well as LDAP authentication. IT and AV managers can also easily monitor the system's health status and track the connection between a source and a destination.

KRAMER NETWORK features:

- User-friendly web-based GUI – easily access and use from anywhere, anytime.
- Automated device detection – reduce configuration time with instant and automated device detection in the network.
- User-access management
 - – delegate user access to specific audio or video sources, rooms and predefined scenarios.
- Topological AV system mapping – easily drill down to visualize a specific network, site, building, or room to start managing AV devices.
- View system status at a glance – quickly identify critical issues in the Network, including at the source-destination connection level.
- Enhanced security – with LDAP user authentication, SSL/TLS secure-connection option and advanced user management, enabling you to create different levels of access for different users.
- Powerful built-in room automation – enhance any device or location with built in Kramer Maestro room and device automation, configuration and management.
- Detailed site topology – easily drill down to visually examine a specific location.
- Live alert and response – proactive notifications such as email and SNMP traps keep you informed of issues in your system.

- Fully customizable scripts – increase the functionality of your system by creating custom scripts in almost any language to provide for the specific needs of a project.
- Integrated room scheduling and management – synchronized with your Outlook.
- Multi-lingual Support.
- Online Help.
- Remote maintenance – save time and budget with no need for on-site visits.
- Control over IP – control a virtually unlimited number of devices with access to a rich, dynamic library of 3rd-party device drivers.
- Software-based solution – **KRAMER NETWORK** installs on standard or virtual IT servers, reducing your total cost of ownership — no need for a dedicated server.
- Easy installation and use – simply install and start using the platform in minutes with no need for programming.
- Scalability to any size of installation – support hundreds of devices simultaneously.
- Easy Click & Connect system – make connections remotely between inputs and outputs on a physical matrix from anywhere on the network.
- Easy devices firmware upgrade – update device firmware remotely from a centralized location with a single click.
- Reports – show device activity logs, user status and administrative logs for user activities.
- Search filters – find devices easily and quickly with search filters such as Device Name, User Name and Device Activities (based on time periods or specific dates).

Installing KRAMER NETWORK for the First Time

To install KRAMER NETWORK for the first time:

1. Open the installation wizard and follow the directions online.

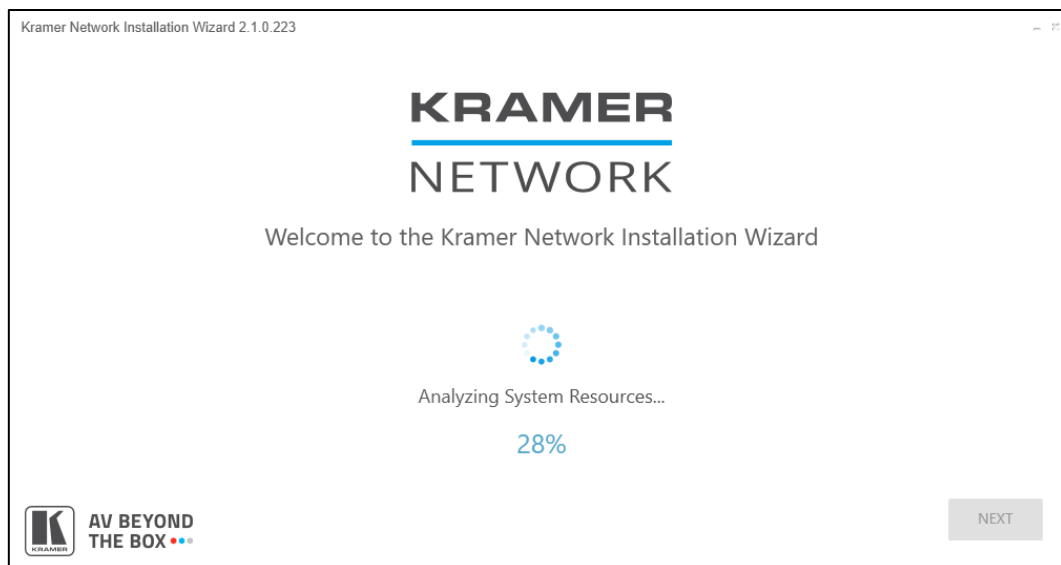


Figure 1: KRAMER NETWORK Installation Wizard

- 2. Click **NEXT**.
- 3. Check Upgrade or Uninstall.

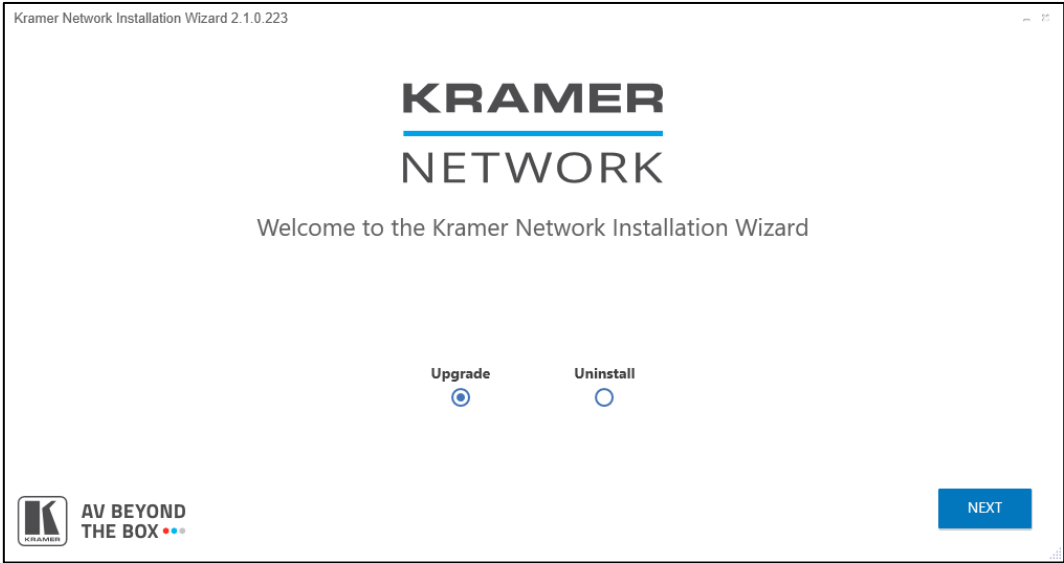


Figure 2: Upgrading KRAMER NETWORK

- 4. Click **NEXT**. The list of devices to upgrade (or install) appears to the left:

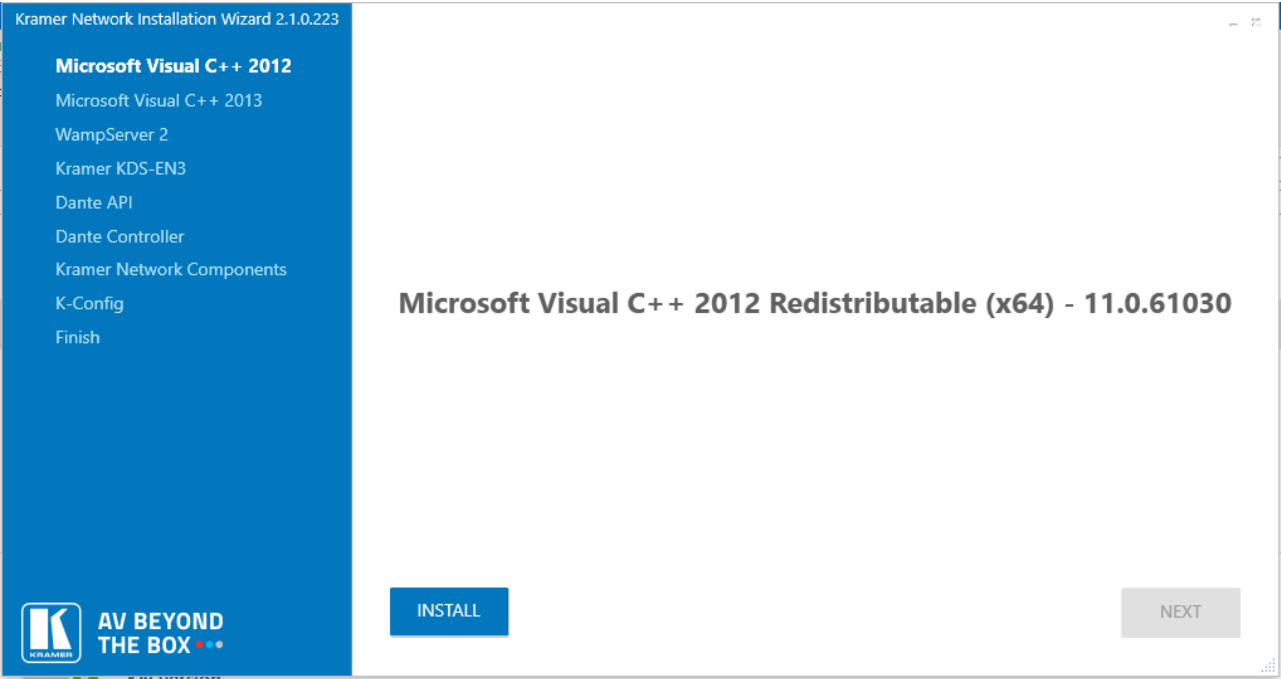


Figure 3: Upgrading KRAMER NETWORK Components

Following the installation of Kramer Network Components and while **K-Config** is installed, **KRAMER NETWORK** database is created (or updated) and the following info message appears:

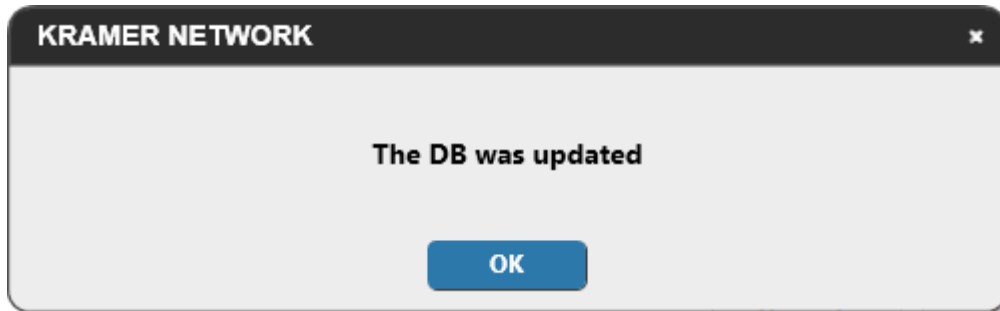


Figure 4: Data Base Updated

5. Click **OK** and wait for completion of the installation process. The **KRAMER NETWORK** Administrator Utilities program opens:

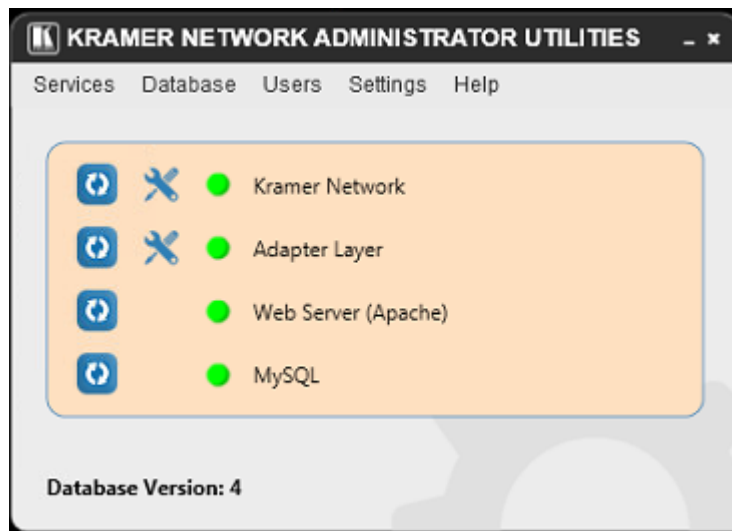


Figure 5: Kramer Network Administrator Utilities Window

The following message also appears:

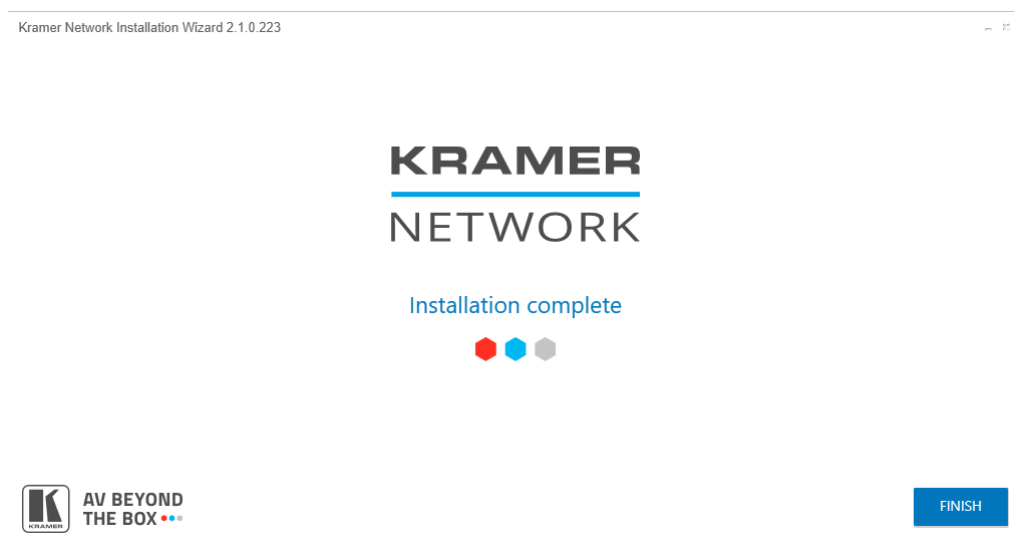


Figure 6: Installation is Complete

6. Click **FINISH**.

Upon successful installation, the **KRAMER NETWORK** Welcome window appears in your default browser for the first time.

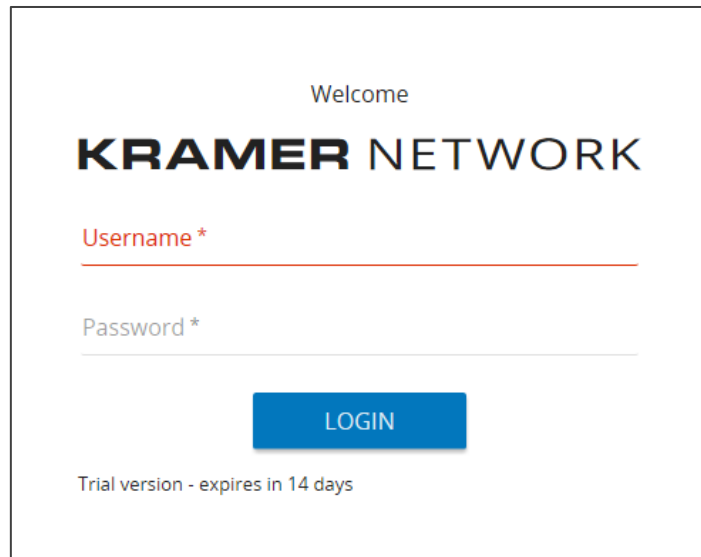


Figure 7: Kramer Network Welcome Page



KRAMER NETWORK is managed in three permission levels: Super, Admin and User (see [Users Management](#) on page [100](#)). When you first open the **KRAMER NETWORK** you need to enter the default login for super user.

7. Enter the default login for super user:

- Username: super.
- Password: 12345

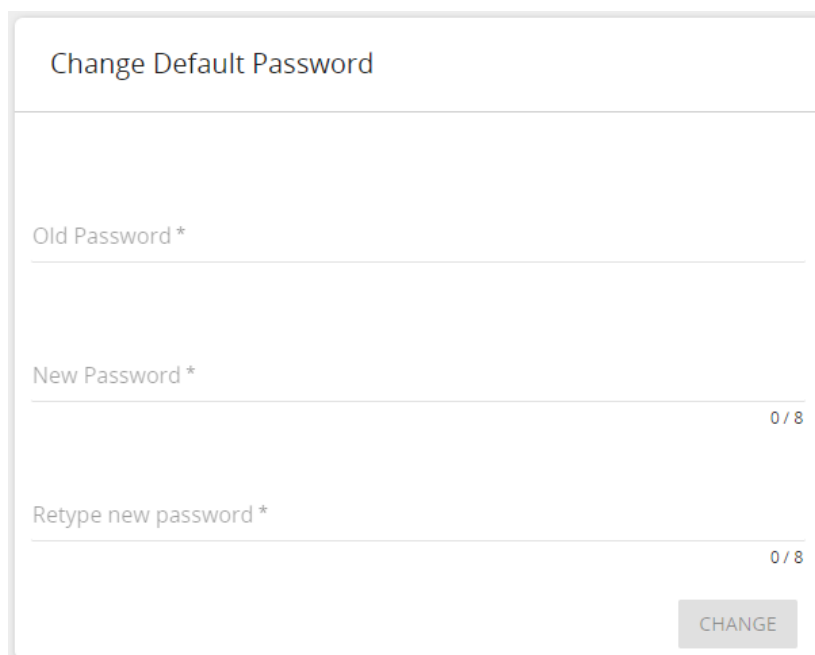
8. Change the default password and click **CHANGE**:


Figure 8: KRAMER NETWORK – Changing the Password

KRAMER NETWORK is installed and accessed for the first time.

Logging In

After installing **KRAMER NETWORK** for the first time you can access and use it (during the trial period and also after acquiring a license) by entering the **KRAMER NETWORK** server IP address from any browser.



We recommend that you acquire a license just before the trial period ends and access is denied (see [Acquiring and Activating Licenses](#) on page 8).

To login:


1. Enter **KRAMER NETWORK** server IP address in your browser.
2. Type your username and the new password and click **LOGIN**:

Figure 9: KRAMER NETWORK Login


The system automatically scans for connected devices as the system dashboard page appears.

Location	Control device	Actions	Devices	Alerts	Maestro
> Room 9	Kramer Network		0	None	
> Room 10	Kramer Network		0	None	
> Room 8	Kramer Network		9	1	
> Room A	SL-280 (SL-280-47900115) 192.168.1.128		3	None	

Figure 10: KRAMER NETWORK Main Page – Opening for the First Time


 **KRAMER NETWORK** dashboard is unique for each AV setup and may appear different than the one presented above. For first-time **KRAMER NETWORK** implementation, see [System Configuration Page](#) on page [11](#).

3. At any point, if required, you can perform the following operations (in the title bar):

- Verify the current user.
- Click [Logout](#) to exit **KRAMER NETWORK**.
- Click  to enter/exit full screen mode.

KRAMER NETWORK is ready for operation.

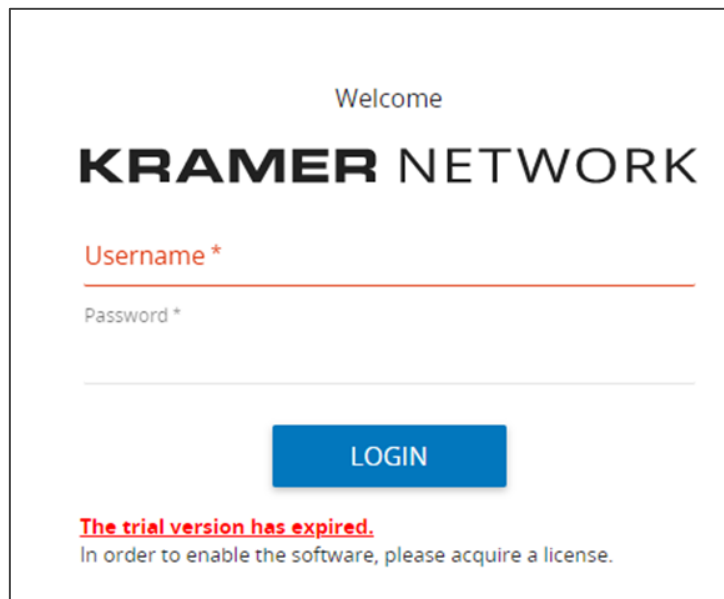
Acquiring and Activating Licenses

 Before acquiring and activating a license, contact your Kramer representative and order a license.

When a license needs to be acquired (after the trial period) or updated, a message appears in the **KRAMER NETWORK** Welcome page.

To update/acquire a license:

1. Access **KRAMER NETWORK**.



Welcome

KRAMER NETWORK

Username *

Password *

LOGIN

The trial version has expired.
In order to enable the software, please acquire a license.

Figure 11: Welcome Page – License Update Required

2. Click **LOGIN**. **KRAMER NETWORK** page appears.

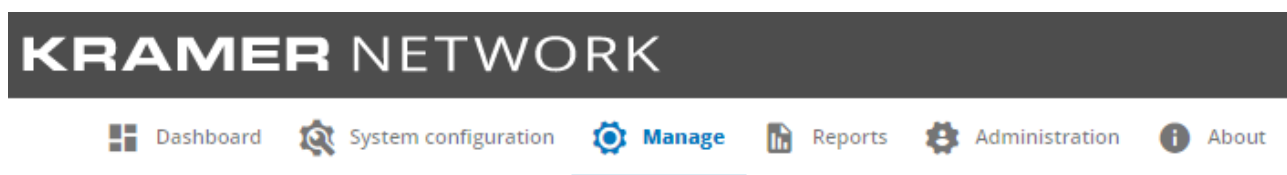


Figure 12: Main Menu

- Click **About** In the menu line. The About page appears.

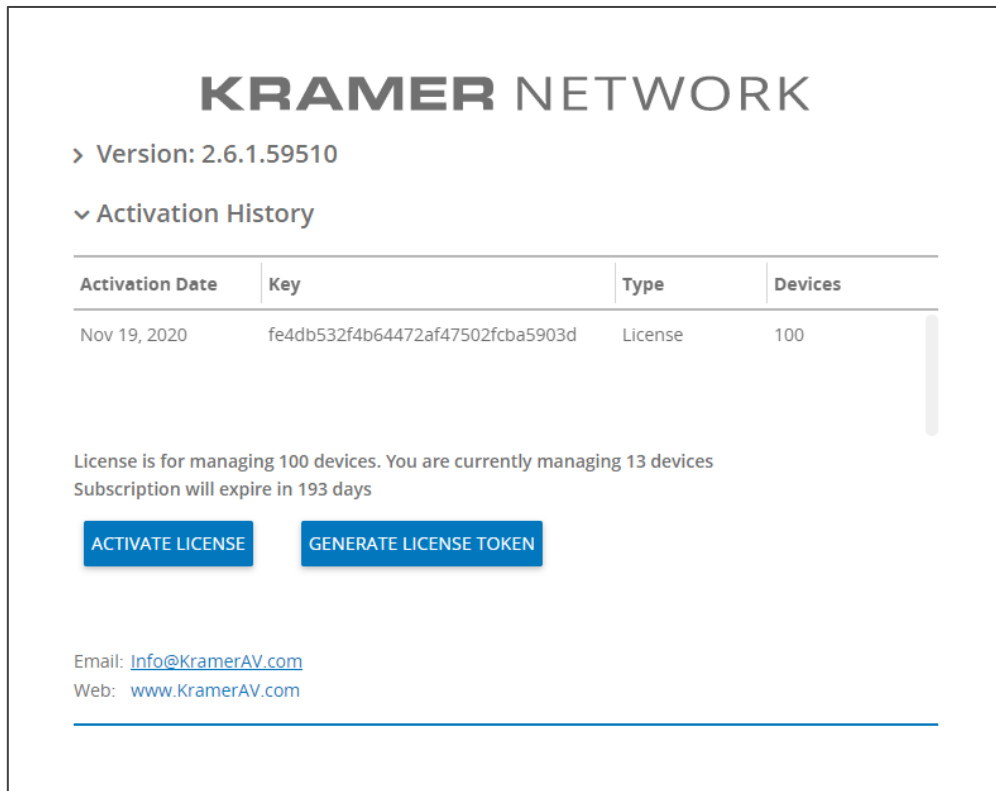


Figure 13: The About Page

- Click **GENERATE LICENSE TOKEN**. The license token window appears.

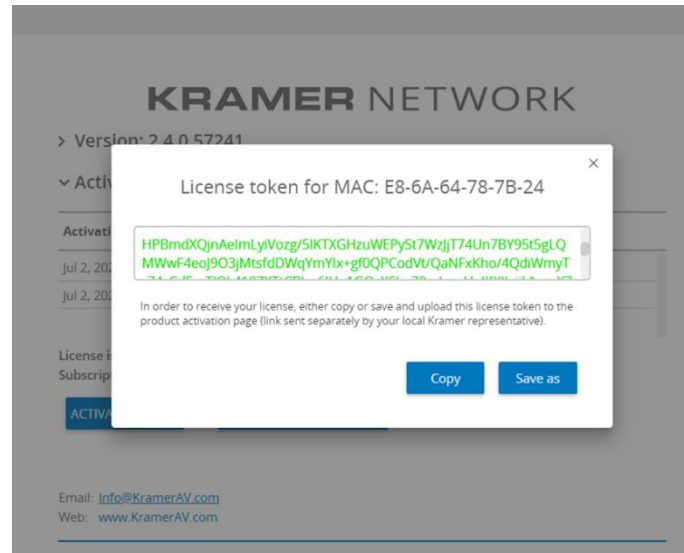


Figure 14: License Token Window

- Do one of the following:
 - Click **Copy** to copy the license token.
 - Click **Save** as to save the license token as a file.
- Send the token to your Kramer representative by email either as pasted text (when clicking Copy) or as an attachment (when clicking Save as).

7. Once you have received the license (as a KNL file), save to your **KRAMER NETWORK** server or to a memory stick connected to your PC.
8. Access **KRAMER NETWORK** and click **ACTIVATE LICENSE** in the Welcome page. An Open window appears.
9. Select the KNL file.

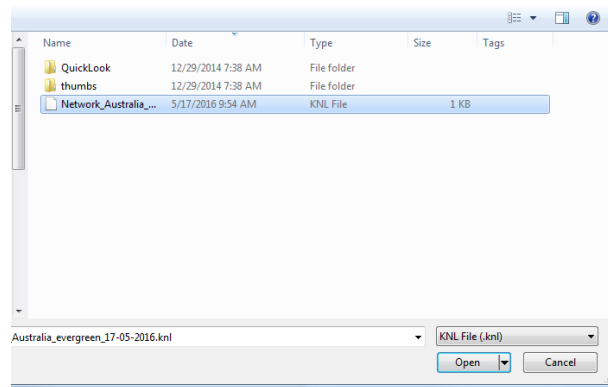


Figure 15: Opening KNL File

10. Click **Open**. Upon successful activation, a success message appears (defining the specific license):

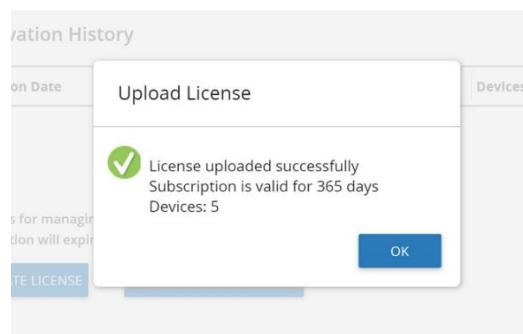


Figure 16: Upload License Message

LICENSE is acquired/updated.

System Configuration Page

The **System Configuration** page enables performing the following actions:

- [Configuring and Managing Devices](#) on page [11](#).
- [Creating and Managing Locations](#) on page [36](#).
- [Configuring the Rooms](#) on page [42](#).

Configuring and Managing Devices

Once the **KRAMER NETWORK** main window (**System configuration** page) opens for the first time, the **All devices** tab appears, and an automatic scan finds all the connected and supported devices in the system.



For each discovered device, you can go to the Supported Device list (see [Viewing Supported Devices](#) List on page [114](#)) to check which features are supported by **KRAMER NETWORK** for this device. For example, a device may be detected by the system, but routing via MATRIX VIEW is not supported.

The discovered devices are included within 6 built-in folders:

- Pro AV – Lists all the AV devices such as switchers, matrices, auxiliary devices such as TVs, projectors and so on.
- Video IP Rx – Lists all the devices receiving video over IP.
- Audio IP Rx – Lists all the devices receiving audio over IP.
- Video IP Tx – lists all the devices transmitting video over IP.
- Audio IP Tx – Lists all the devices transmitting audio over IP.
- Controlled Devices – Lists all the devices that are controlled by Kramer products which incorporate a Brain (for example, SL-240C, SL-280 and KC-BRAINware product families).

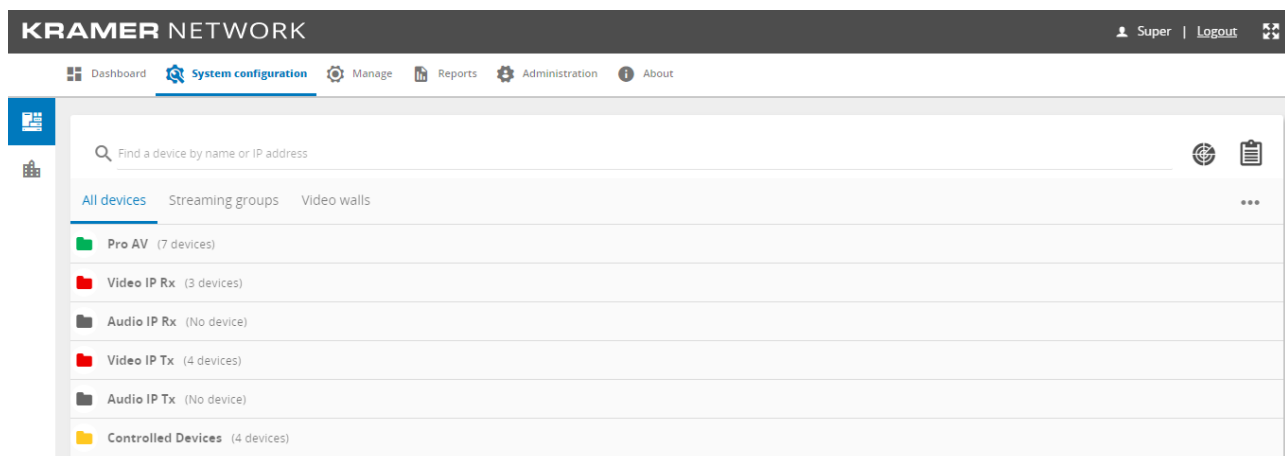





Figure 17: System Configuration Page





Device List


Select a device from the built-in folders to view its status. The following table defines the device status color key (same for audio and video devices):

Icon Color	Status Definition
	Ready (for example, the Pro AV device is ready).
	Awaiting Connection (for example, the video device is awaiting connection).
	Disconnected from the Network (for example, the audio device was disconnected from the network).

After selecting a device from the list, you can also edit its name.

Use the ALL DEVICES subtab as follows:

- Click  (Scan devices) any time to add the latest devices that were connected to your system (super user only).
- Click  to find unassigned devices (see [Finding Unassigned Devices in the Network](#) on page [13](#)).
- Filter out a device by typing its name (or part of its name), or IP address in the search text box.
- Click  to add a device manually (see [Adding a Device Manually](#) on page [14](#)), perform Multi-Device Deployment to configure several devices at once (see [Configuring Several Devices Simultaneously](#) on page [17](#)), enter Overlay Editor to create a new project.
- Click  to enter authentication for saving the changes made.

 The source devices include Kramer encoder/decoder systems (such as the **KDS-EN4**, **KDS-EN6** and so on) and Dante™ encoder devices which are integrated into **KRAMER NETWORK**.

Finding Unassigned Devices in the Network

Some devices cannot be associated to their IP address during auto-scan, so they need to be associated to devices manually. Use the unassigned IP addresses dialog box to associate these IP addresses to devices. By default, only the list of the unknown devices appears in the Unknown devices window.



This operation can be performed by the super user only.

To discover unassigned devices:

1. Select **System configuration > Devices** side-tab.
2. Click . The Unknown devices window opens.

The screenshot shows a window titled "Unknown devices" with a close button (X) in the top right corner. Below the title bar, there is a checkbox labeled "Show only new devices" which is checked. The main content is a table with the following columns: IP address (with an upward arrow), Scan name, Scan date, Device protocol (with a dropdown arrow), Device name, Device type, and Device v. The table contains two rows of data:

IP address ↑	Scan name	Scan date	Device protocol	Device name	Device type	Device v
192.168.56.74	Base Scan (default scan)	17/12/2018 12:21:53 PM	N/A	----	----	----
192.168.68.201	Base Scan (default scan)	17/12/2018 12:21:53 PM	N/A	----	----	----

Below the table, there is a pagination control showing "Page: 1", "Rows per page: 10", and "1 - 2 of 2". There are also navigation arrows. At the bottom left, there is a checkbox labeled "Clear notification for these devices". At the bottom right, there is a blue "CLOSE" button.

Figure 18: Unknown Devices Window



If you recognize the IP address you can associate it with the device (for example, to a VIA device).

3. In the discovered device line, open the drop-down list under Device protocol and select Via. Via device details (such as device type, vendor, protocol, port number and so on) are added to the device line.
4. Click **ADD**.

The unassigned device is added.

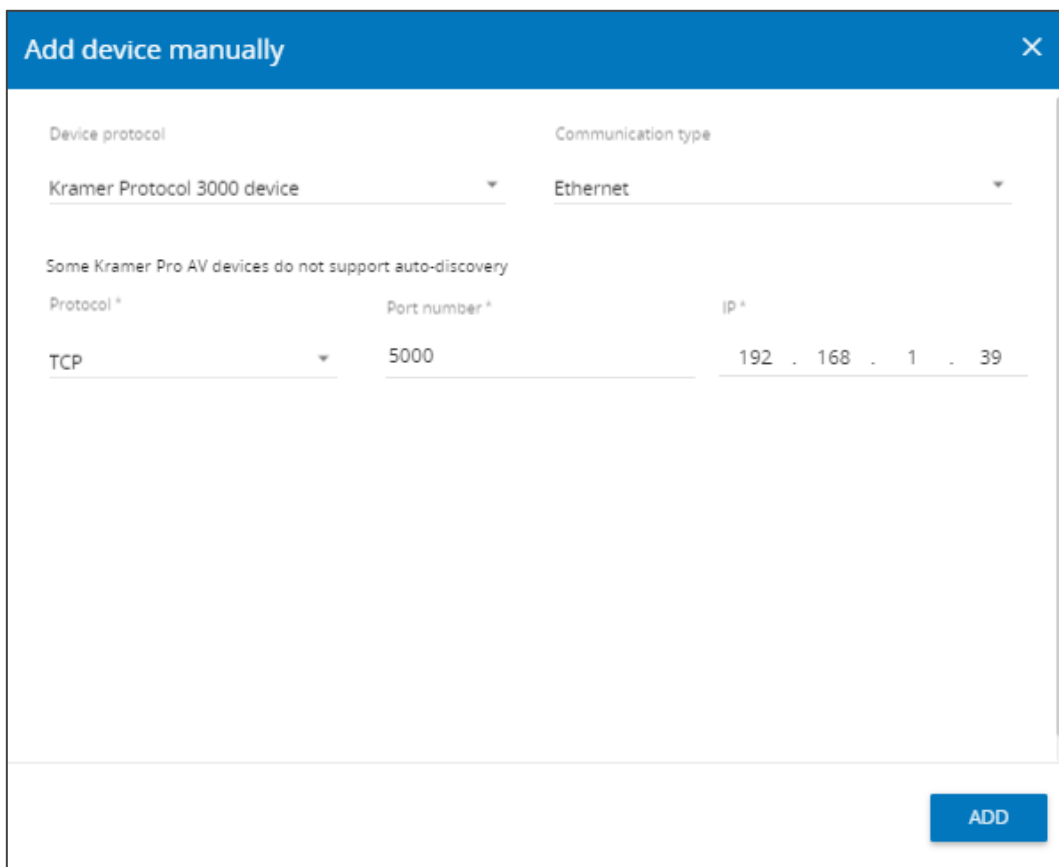
Adding a Device Manually

The following device types cannot be discovered via system scan and can be added manually:

- Offline devices.
- IP Kramer devices that do not support broadcast.
- Pro AV devices that are connected to I/O gateways.
- Non-IP devices (serial or IR).
- Certain non-Kramer devices.

To add a Kramer device manually:

1. Click **...** and select **Add Device Manually**. The following window appears:



The screenshot shows a window titled "Add device manually" with a close button (X) in the top right corner. The window contains the following fields and options:

- Device protocol:** A dropdown menu with "Kramer Protocol 3000 device" selected.
- Communication type:** A dropdown menu with "Ethernet" selected.
- A note: "Some Kramer Pro AV devices do not support auto-discovery".
- Protocol *:** A dropdown menu with "TCP" selected.
- Port number *:** A text input field containing "5000".
- IP *:** A text input field containing the IP address "192 . 168 . 1 . 39".
- ADD:** A blue button at the bottom right of the window.

Figure 19: Add Device Manually Window – Ethernet Communication

2. Select the **Device protocol** Kramer Protocol 3000 device – for Kramer devices.
3. For Kramer devices that support protocol 3000, select the communication type: Ethernet, Serial or IR:
 - **ETHERNET:** select the Protocol (TCP or UDP), enter the port number and the IP address (see [Figure 19](#)).

- **SERIAL:** select the I/O gateway device for the serial communication (discovered automatically) and then select the serial port in this I/O gateway which you are using.

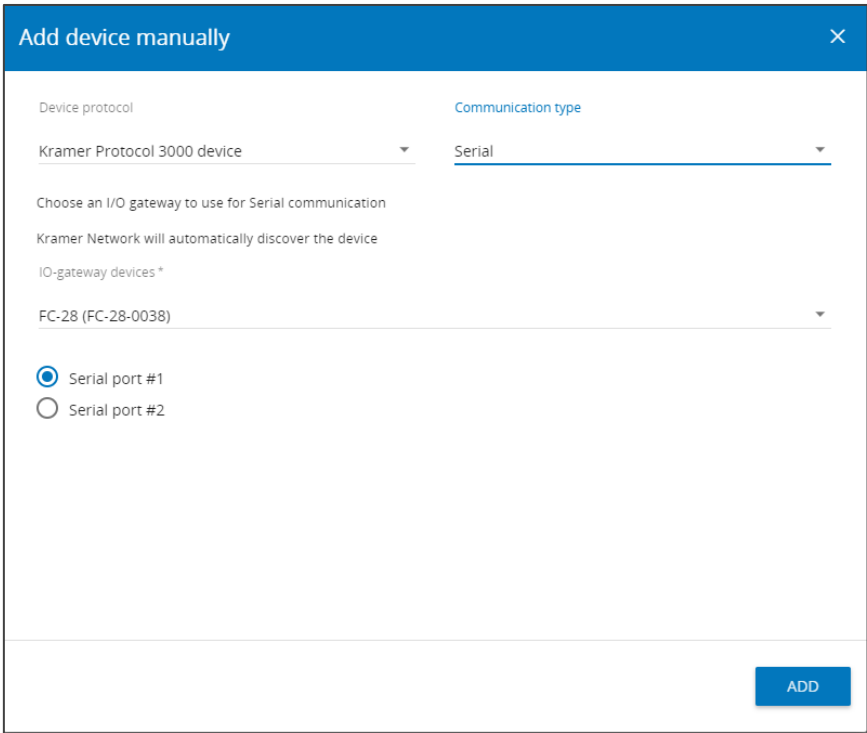


Figure 20: Add a Kramer Device Manually – RS-232 Communication

- **IR:** type the device Name, select the **Device type**, **Device vendor** and **Device model**. Choose the I/O gateway device from the list and then select the IR port to which the device is connected.

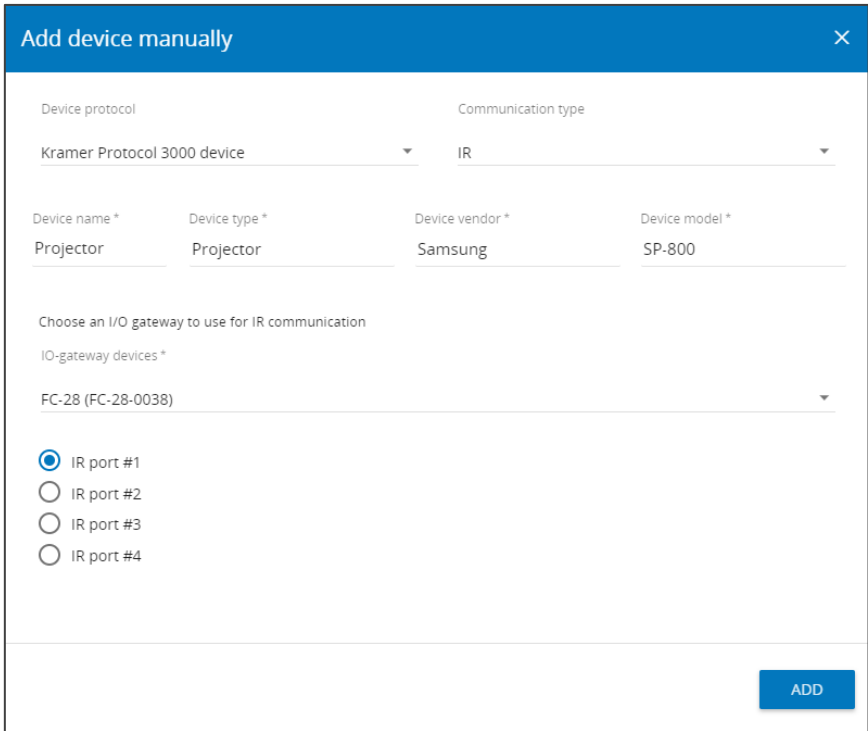


Figure 21: Adding a Kramer Device Manually – IR Communication

4. Click **ADD**.

The Kramer device is added.

To add a generic (non-Kramer) device manually:

1. Click **...** and select **Add Device Manually**.
2. Set the Device protocol to **Generic device**.
3. Select the communication type: Ethernet, Serial or IR:
 - **ETHERNET**: select the **Protocol** (TCP or UDP), type the **Port number** and the **IP address**.
Type the device name and then select the **Device type**, **Device vendor** and **Device model**.
 - **SERIAL**: Type the device name and then select the **Device type**, **Device vendor** and **Device model**.
Select the I/O gateway device for serial communication (discovered automatically) and the serial port in this I/O gateway which you are using.
 - **IR**: Type the device name and then select the **Device type**, **Device vendor** and **Device model**. Choose the I/O gateway from the list and then select the IR port to which the device is connected.
4. Click **ADD**.

The non-Kramer device is added.

To add a VIA device manually:

1. Click **...** and select **Add Device Manually**.
2. Set the Device protocol to **VIA**.
3. Check **Use default credentials** or uncheck if you are adding the Username and Password manually.
4. Enter the IP address.
5. Click **Add**.

The VIA device is added.


To add a Streaming device manually:

1. Click **...** and select **Add Device Manually**.
2. Set the Device protocol to **Streaming (telnet)**.
3. Check **Use default credentials** or uncheck if you are adding the Username and Password manually.
4. Enter the IP address.
5. Click **Add**.

The streaming device is added.

Configuring Several Devices Simultaneously

Use Multi-deployment for efficiently configuring several identical devices simultaneously. For example, configuring **VS-88UT** matrix devices by replicating the configuration of one matrix to multiple matrices with the same IN-OUT configuration simultaneously.

 This operation can be performed by the super user only.

To replicate an existing configuration:

1. Click  and select **Multi-Device Deployment**. The following window appears:

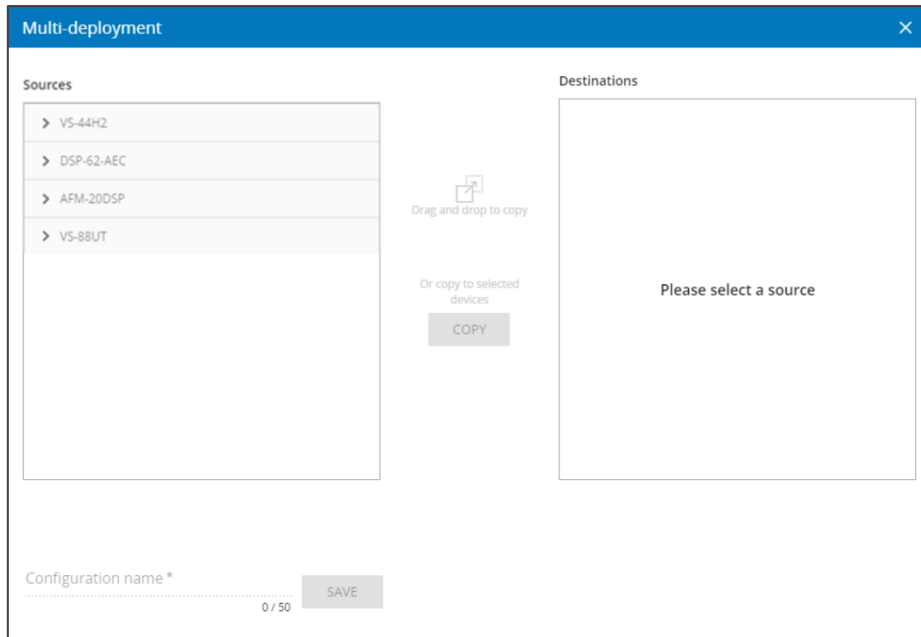


Figure 22: Multi-Deployment Window

2. Click the device type to view the configured devices list.

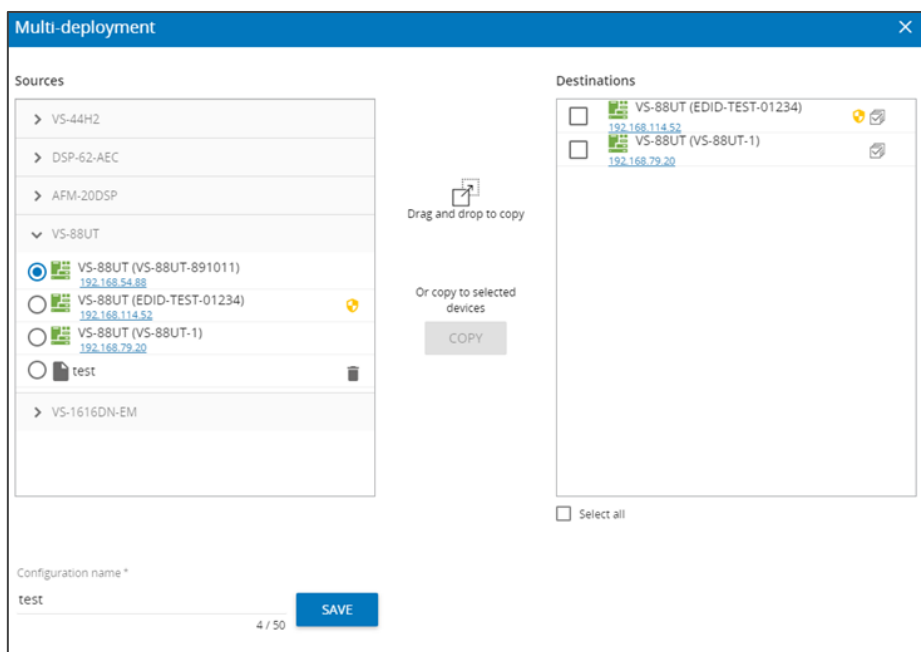


Figure 23: Multi Deployment Window – VS-88UT

3. Drag a source (configured) device to a destination device (that needs to be configured). you can also check a device or click **Select all** to copy the source configuration to the selected devices in the destination list.
4. Type the received configuration name and click **SAVE**.

The configuration is replicated.

Decoder Overlay Editor

You can overlay text or a graphic over a selected decoder image via the decoder overlay editor.



Not all decoder models support all the features described in this section.



This operation can be performed by the super user only.

To Edit decoder overlay:

1. Click **...** and select **Decoder Overlay Editor**. The Overlay editor window appears.

Overlay editor

Create new project

Project name * 0 / 30

CREATE

Figure 24: Overlay Editor Window

2. Enter the project name (for example, a welcome message).

3. Click **CREATE**. The project Overlay editor full window appears.

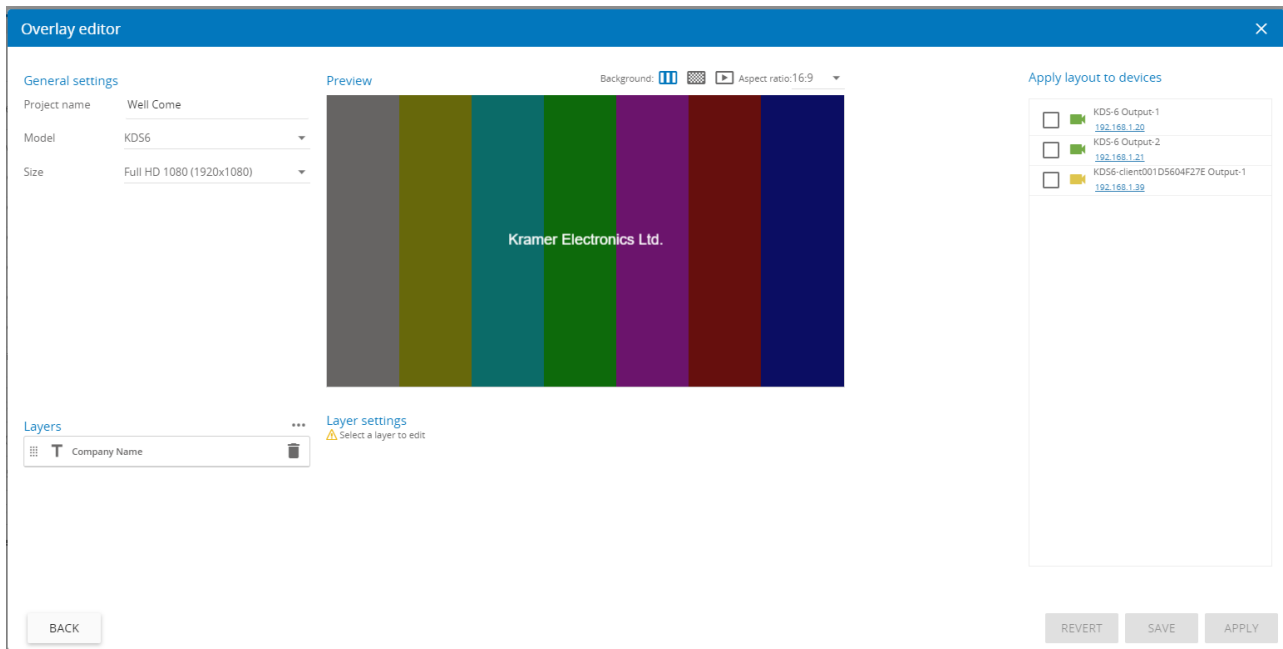



Figure 25: Overlay Editor – Creating a Project

4. Set the General Settings:
 - Change project name.
 - Select the decoder model.
 - Select the size (output resolution).
 5. Set Preview background and Aspect ratio.
 6. Enter the overlay text and perform any of the following:
 - [Adding/Deleting Company Name](#) on page [20](#).
 - [Adding Text and/or Graphics](#) on page [21](#).
 7. Select the aspect ratio.
 8. Check the decoders to apply to the layout.
 9. Click **SAVE** to save changes to the project or click revert to go back to the previous settings.
 10. Click **APPLY** to present the overlay on screen.
- Decoder overlay is set.

Adding/Deleting Company Name

By-default, “Kramer Electronics Ltd.” appears as the Company name.

To delete or edit the default Company Name text box:

1. Do one of the following:
 - To remove the company name, click .
 - To Edit the Company name, go to the next step.

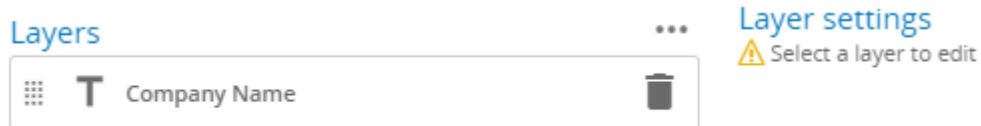


Figure 26: Default Layer – Company Name

2. Click the Layers text box (Company Name). The Text layer settings area opens:

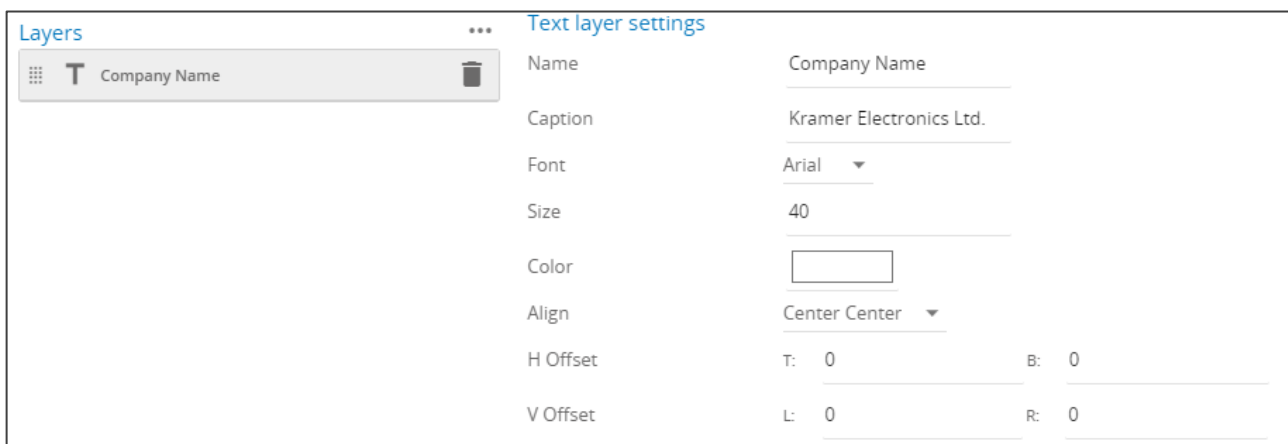


Figure 27: Text Layer Settings

3. In the Text layer area:
 - Change the caption Name (or leave if the Caption includes the company name).
 - Change the caption.
 - Select the font, font size and color.
 - Select the caption alignment.
 - Enter the horizontal and vertical offsets to set the precise location of the caption.
 4. Click **SAVE**.
- Company name has changed.

Adding Text and/or Graphics

To add text and/or a graphic to the decoder:

1. Next to Layers, click
2. Select **Add text** or **Add image**.
3. Follow the instructions on screen.
4. Click **SAVE**.

Text/Graphics are added.

Accessing Device Web Page

To view a device web page (for example, for SL-280):

1. Select **System configuration** > **Devices** window and select **All devices** tab.

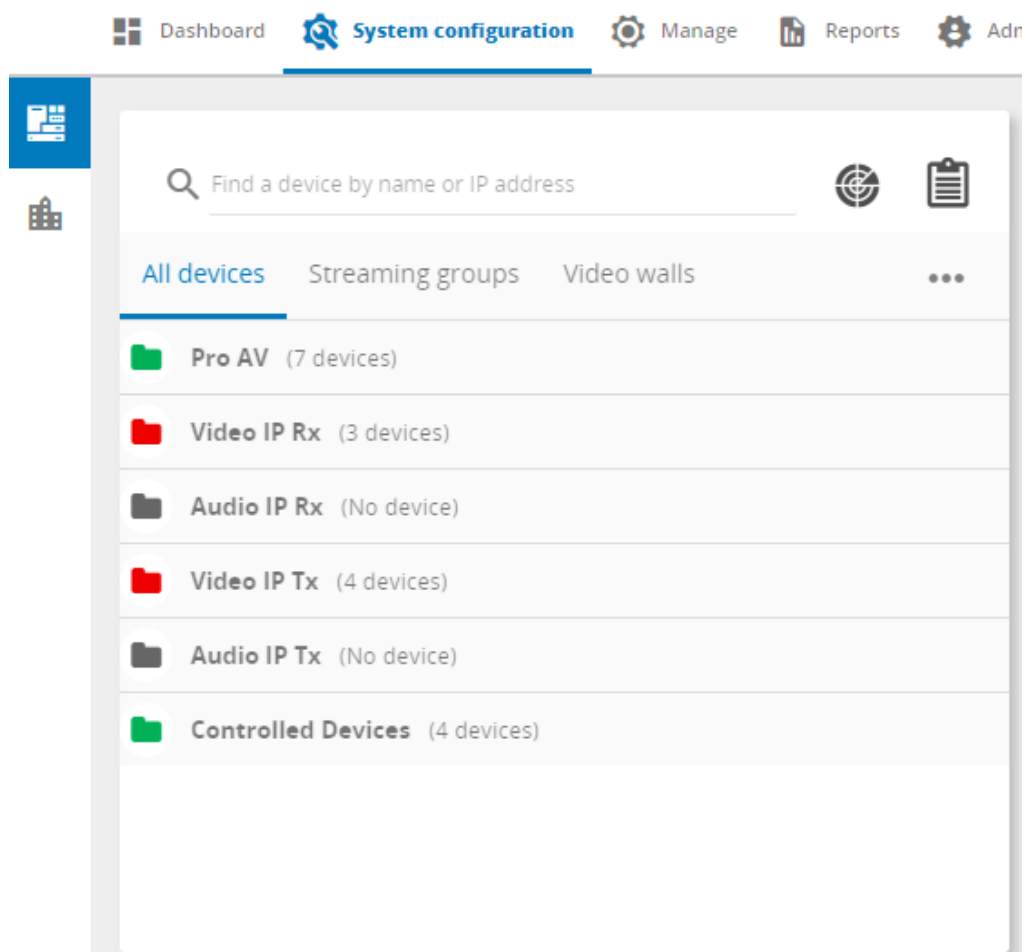


Figure 28: Viewing the Device Web Page – The ALL DEVICES Tab

2. Click the **Controlled Devices** folder and select SL-280.

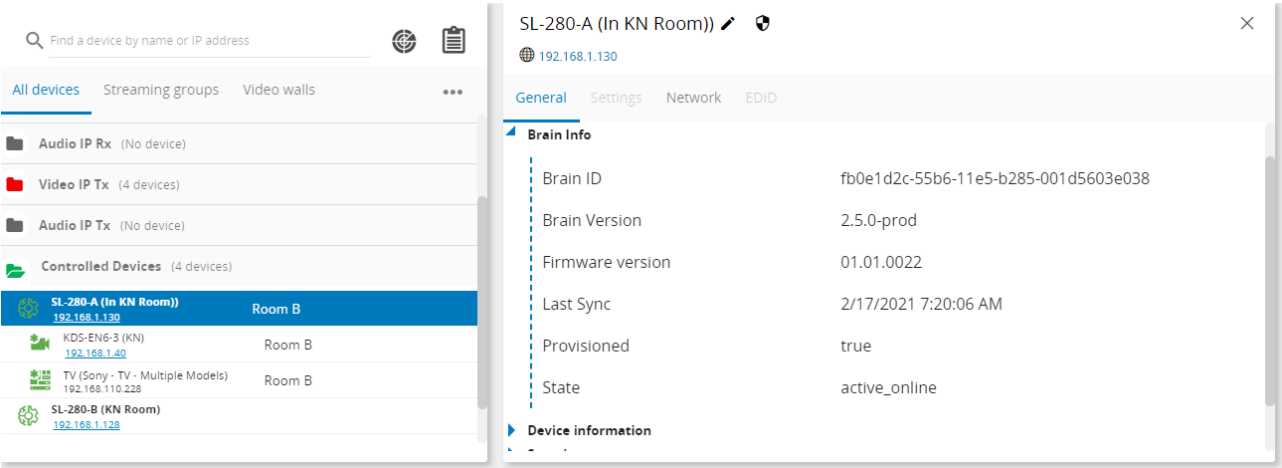


Figure 29: Viewing the Device Web Page – GENERAL Tab

3. Click the IP address below **SL-280**. The **SL-280** web page appears:

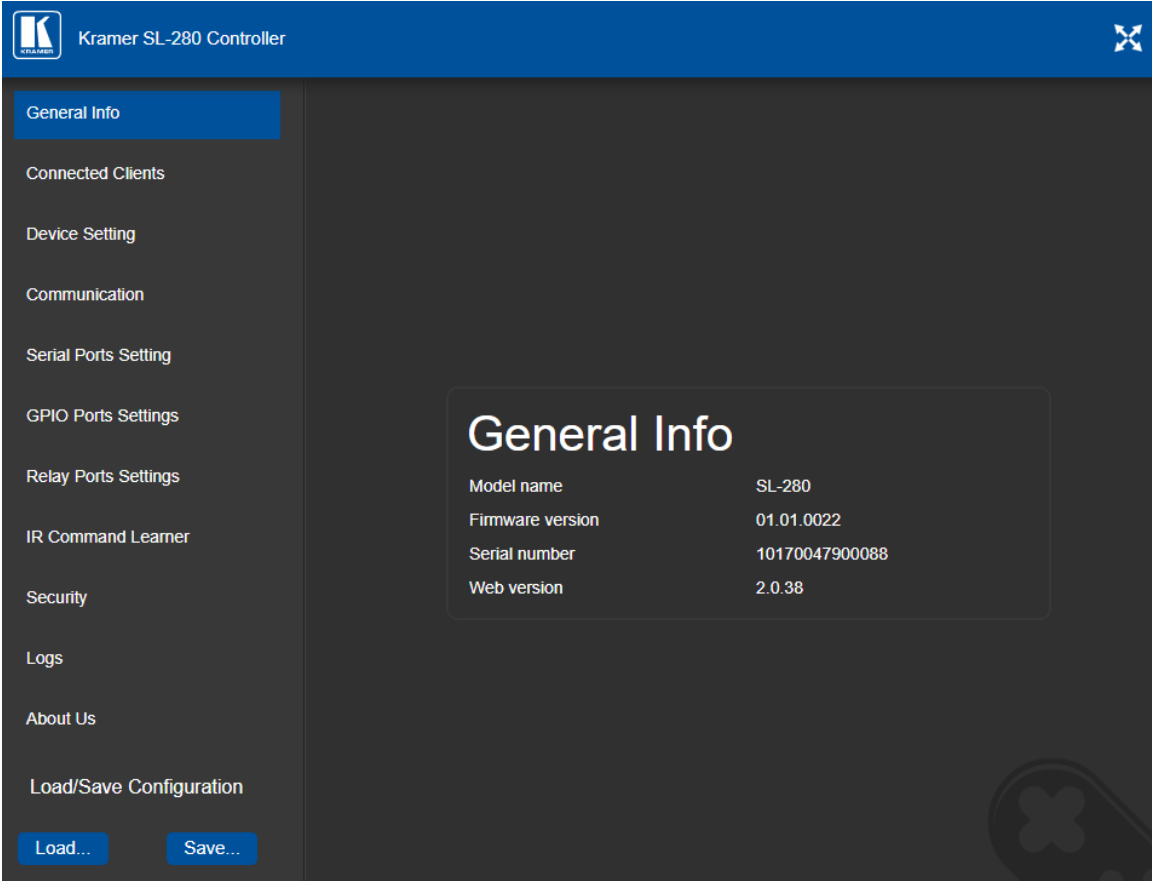


Figure 30: Viewing the Device Web Page – SL-280 Embedded Web Pages

4. Perform any desired operations via the web pages.

The device web page is accessed.

Select Device Location

Before selecting the physical location of the device, you need to define the controlled spaces via the **LOCATIONS** tab in the **System configuration** page (see [Creating and Managing Locations](#) on page 36).

Once the list of locations is prepared, click the drop-down box next to the device name and select the correct location.

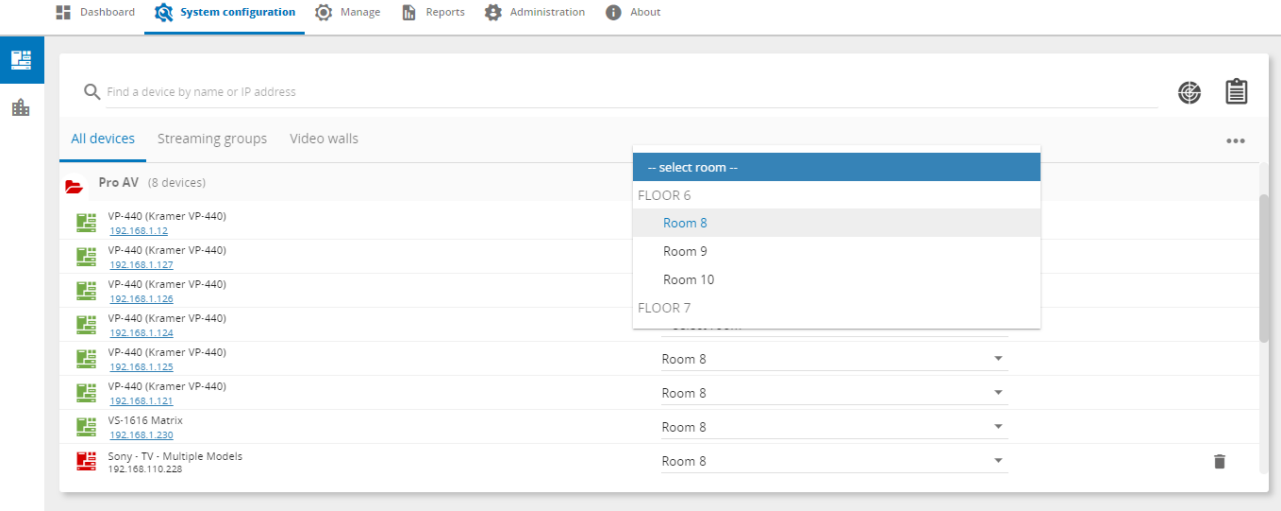


Figure 31: Selecting Device Location

Editing Device Parameters

To view and edit the device parameters (for example, the VP-440):

1. Select **System configuration > DEVICES** tab > **ALL DEVICES** subtab.
2. Click the device name (**VP-440**). The parameter page opens:

The screenshot displays the Kramer Network System Configuration web interface. The top navigation bar includes 'Dashboard', 'System configuration', 'Manage', 'Reports', 'Administration', and 'About'. The user is logged in as 'Super'. The main content area is divided into a left sidebar and a right main panel. The sidebar shows a search bar and a list of devices under 'Pro AV (7 devices)', with 'VP-440 (Kramer VP-440)' selected. The right panel shows the 'VP-440 (Kramer VP-440)' device details for IP address 192.168.1.12. The 'General' tab is active, displaying fields for Manufacturer (Kramer Electronics Ltd.), Model name (VP-440), Name (Kramer VP-440), Serial Number (10170009300279), and Type (Video Processor). Below the fields are two images of the VP-440 device: a top view showing the front panel with buttons and a bottom view showing the rear panel with various ports.

Figure 32: Device Parameters


3. Perform the following operations (optional):
 - Hover over the photo of the device to enlarge details or click the device image to show it in a separate window.
 - Click the IP address to connect web pages.
 - Change the device name: click the device name (for example, **VP-440 (Kramer VP-440)**) and type the new name.
 - In the **General** tab, view Device Information and when viewing the streamer manage the recording feature (start/Stop and then click **Set**).
 - In the **Settings** tab, view and change parameters.
 - In the **Network** tab, view network parameters.
 - In the **EDID** tab, acquire the EDID (see [Managing the EDID](#), on page 25).



The **General**, **Settings**, **Network** and **EDID** tabs are specific for each device.

Managing the EDID

Copy the EDID from the inputs, outputs, default or an EDID file to the inputs using the EDID Management feature. You can read the EDID only for devices that support EDID (for example, VS-1616).

 This operation can be performed by the super user only.

Each EDID configuration can be saved to the Files area by clicking . The file is saved in the Files area.

To acquire the EDID from an input, output or read the default EDID:

1. Select **System configuration > Devices > All devices**.
2. Open the Pro AV folder and select a device from the list.
3. Click the **EDID** tab.

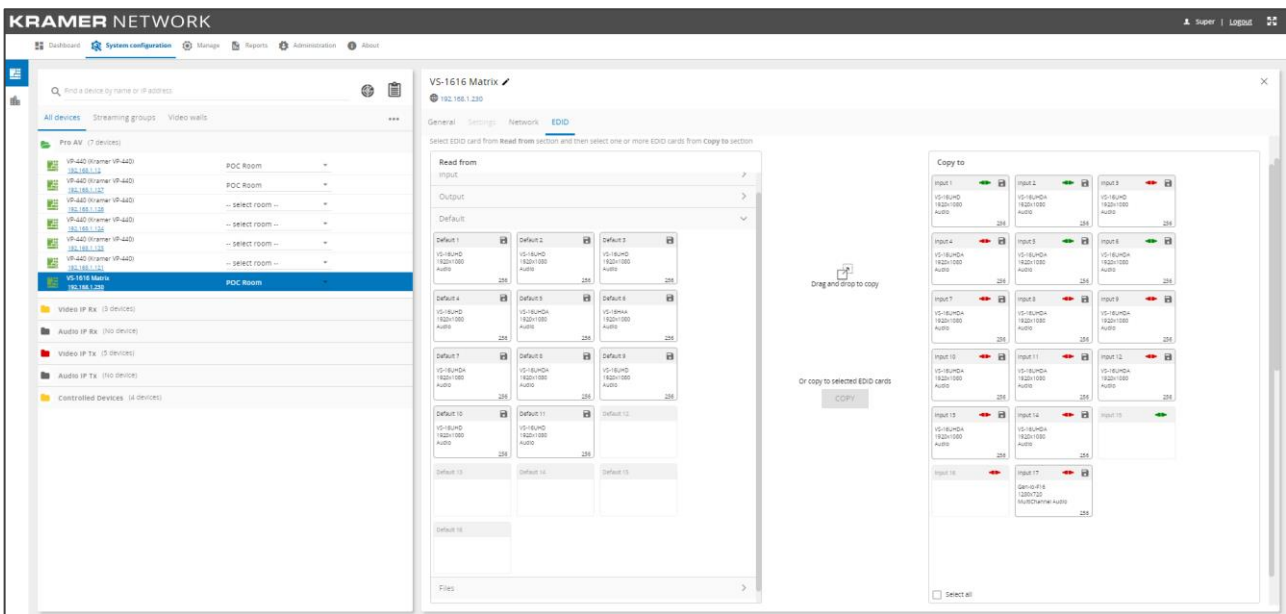


Figure 33: EDID Tab

4. Click an arrow in the **Read from** column to select an EDID source: Input, Output, Default or Files.

5. Select the EDID source (for example, Default).

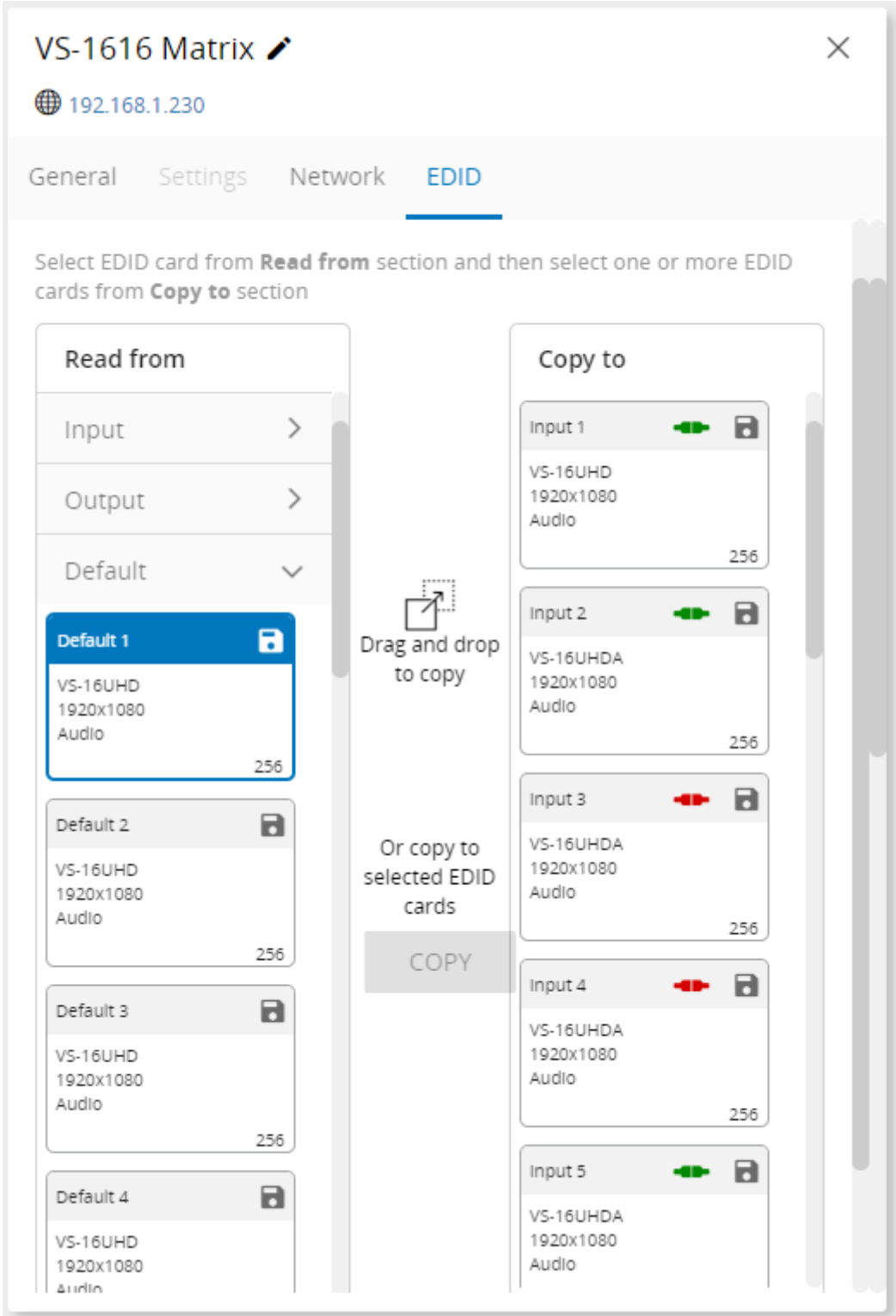


Figure 34: Selecting Default EDID

6. To copy the EDID to an input, do one of the following:
 - Drag the selected EDID source to the **Copy to** column and drop it over the desired input.
 - Select an input or several inputs (or check **Select all**) and then click **COPY**.

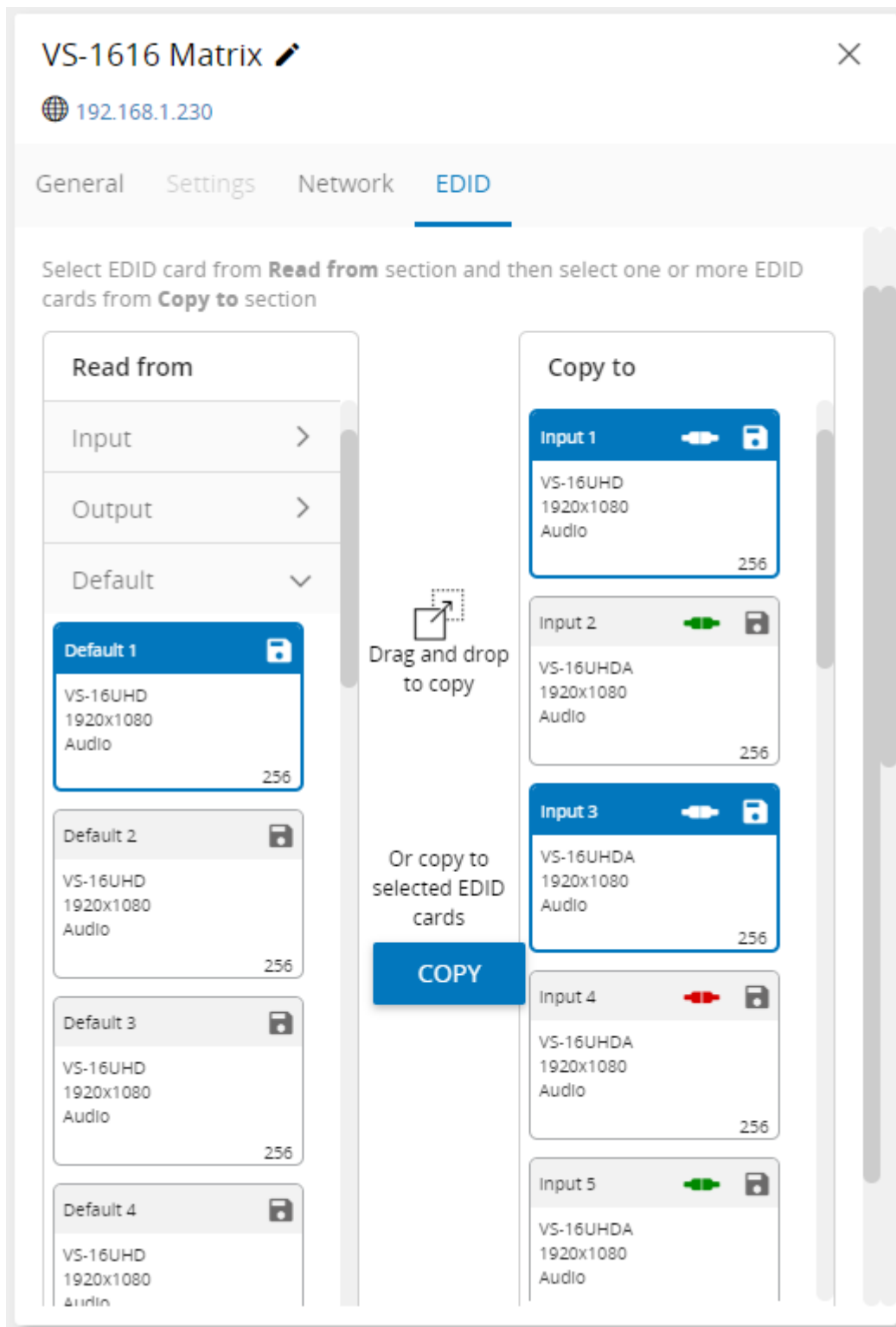


Figure 35: Copying the Default EDID

The EDID is copied to the input/s.

To acquire an EDID from a file:

1. Select **System configuration > Devices > All devices**.
2. Open the Pro AV folder and select a device from the list.
3. Click the **EDID** tab.
4. Click an arrow in the **Read from** column to select an EDID source: Input, Output, Default or Files.
5. Select **Files** EDID source.



Before copying the EDID from the file, you can check **Prevent device modification data** if you do not want the input configuration to be changed by the EDID that was copied (for example, retaining the EDID Force RGB feature on the input).

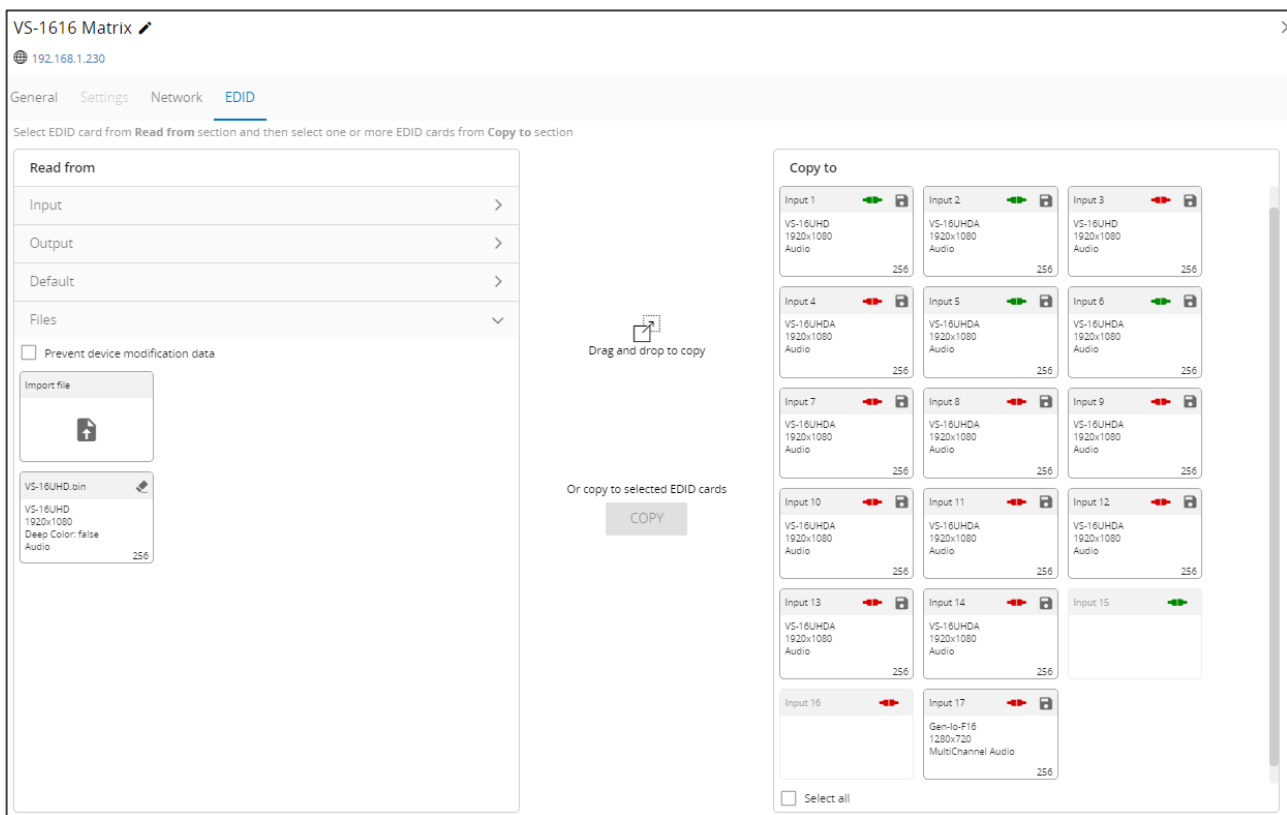



Figure 36: Selecting Default EDID



Each EDID file can be deleted by clicking .

6. Click a previously saved EDID file and drag it to the input/s, or click  in **Import file** to upload an EDID file and then:
 - Select the EDID file from your folders and click **Open**. The Save EDID window opens.

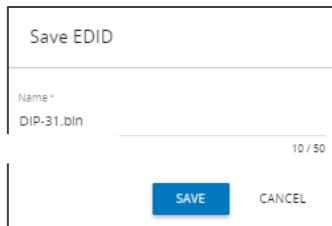


Figure 37: Saving EDID Window

- Enter the EDID file name and click **SAVE**.

The EDID is copied to the input/s.

Creating Streaming Groups

The streaming group includes all the streaming devices. Initially the STREAMING GROUP subtab displays the following message:

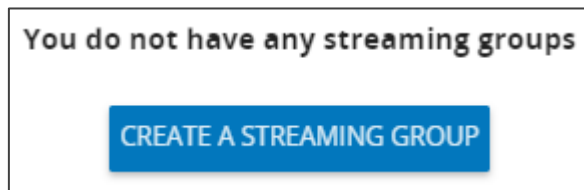


Figure 38: Streaming Group Message

To create a streaming group:

1. Select **System configuration > Devices > Streaming groups**.
2. Click **CREATE A STREAMING GROUP**. The Setup sub-tab appears:

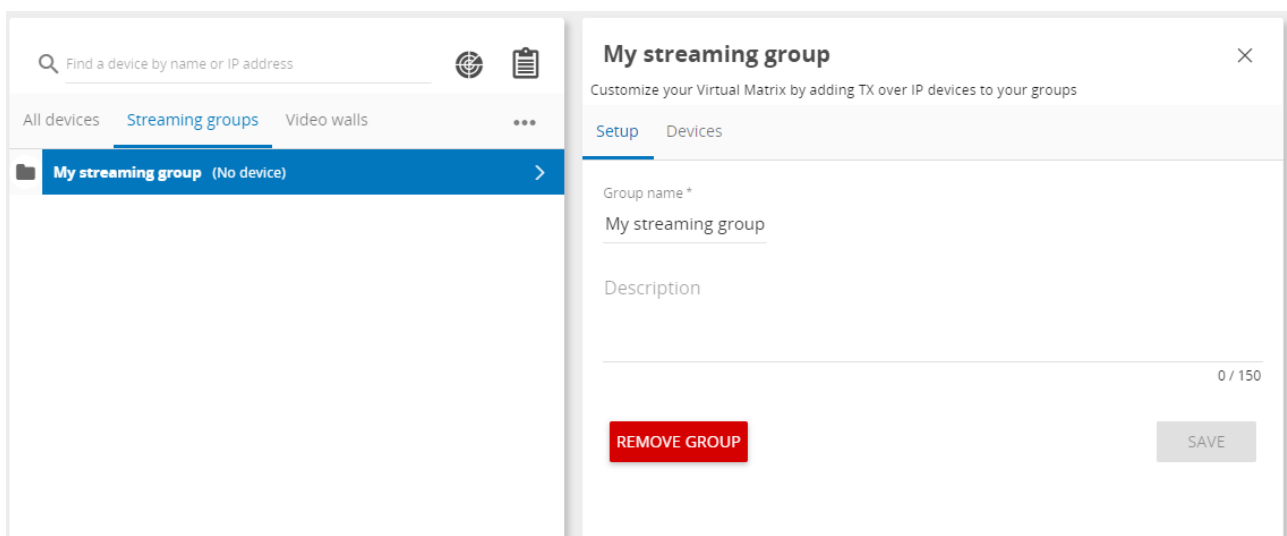


Figure 39: Adding Streaming Group

3. Enter the streaming group name (for example, Streaming group A) and if required add a description to the streaming group.

Figure 40: Adding Streaming Group – Entering Streaming Group Name

4. Add a Description to the new streaming group, if required.
5. Click **SAVE**. The streaming group appears in the left column:

Figure 41: Adding Streaming Group – Streaming Group Added

6. Add a Description to the new streaming group, if required.



Click **REMOVE GROUP** to remove a group from the list.

7. In the Devices sub-tab, click **+** to add streaming devices to the group.

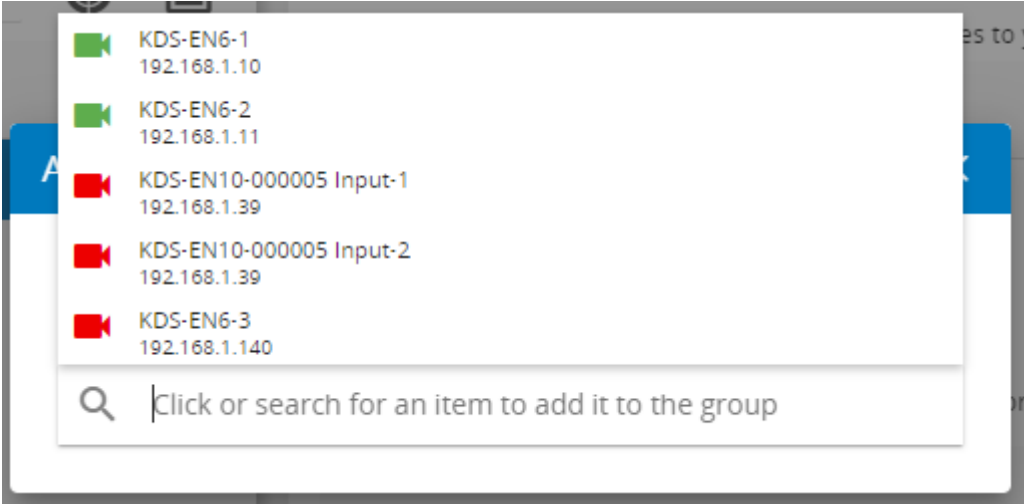


Figure 42: Streaming Group – Devices

8. Click a device to add it to the streaming group. You can select more than one device.

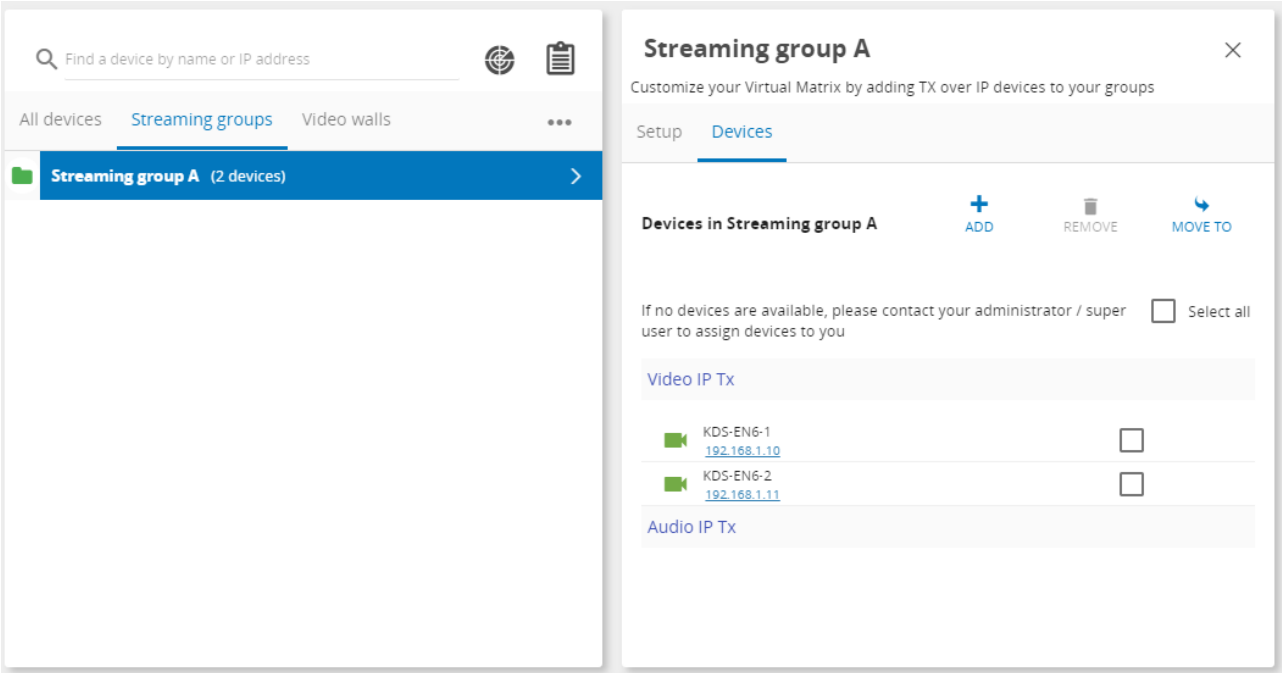



Figure 43: Streaming Group – Device List

You can:


- Select one or more devices and click **REMOVE** to remove them.
- Move a device/s to a different group or add more devices to the group.
- Add another streaming group, by clicking **...** and selecting **+ Add streaming group**.

Creating Video Walls

Use **KRAMER NETWORK** to configure, edit and test video walls.

 This operation can be performed by the Super and the Admin (upon permission) only.

To configure a video wall:

- 1. Select **System configuration > Devices > Video Walls**.
- 2. Click  and select **Add Video Wall**. The **Video Wall Editor** window opens:

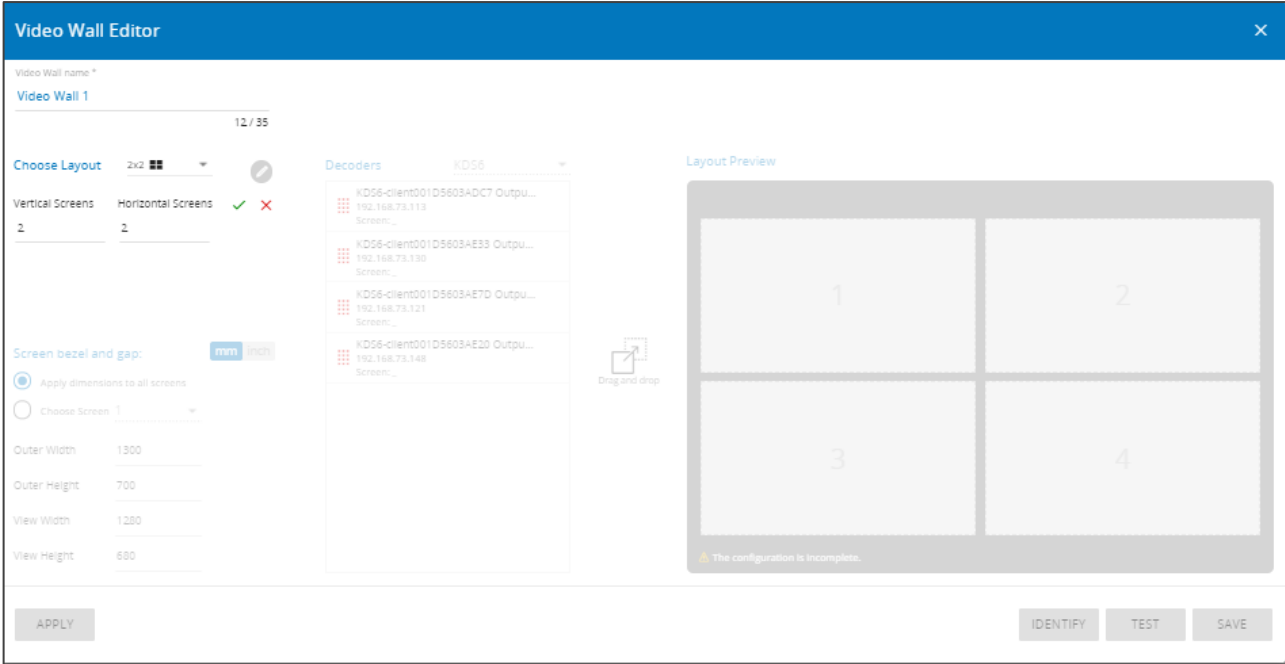


Figure 44: Video Wall Editor

- 3. Enter the Video Wall name (Video-Wall-1 in this example).
- 4. Set the layout from the drop-down list or configure a custom layout (2x2 in this example):

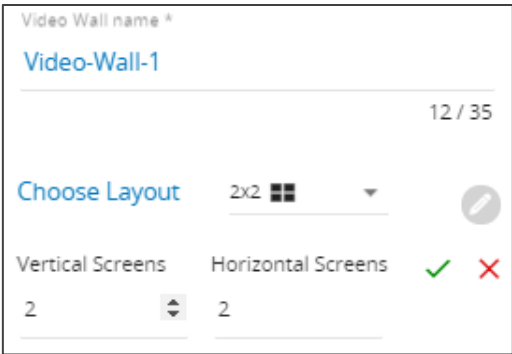




Figure 45: Video Wall – Name and Layout

- 5. Click  to save the layout or  to cancel it.
- 6. Set the screen bezel and gap and select **mm** or **inch** for measuring.

7. Check **Apply dimensions to all screens** or **Choose Screen** and set each screen resolution separately.

Figure 46: Video Wall – Setting Bezel and Gap

8. Click **APPLY**.

The video wall layout is ready.

To assign the decoders to the screens in the layout:

9. From the **Decoders** list, drag and drop a decoder to its correct position in the screen layout.



The decoders should be assigned according to the real, physical setup of the screens they are connected to.

Figure 47: Video Wall – Assigning a Decoder to a Screen

10. Hover over an assigned screen with the mouse to view the model name, IP address and status of the decoder.
An assigned screen turns from gray to white.



Figure 48: Video Wall – Decoder Status

11. In the same way assign the remaining screens.
12. Click **SAVE**. The video wall configuration appears:

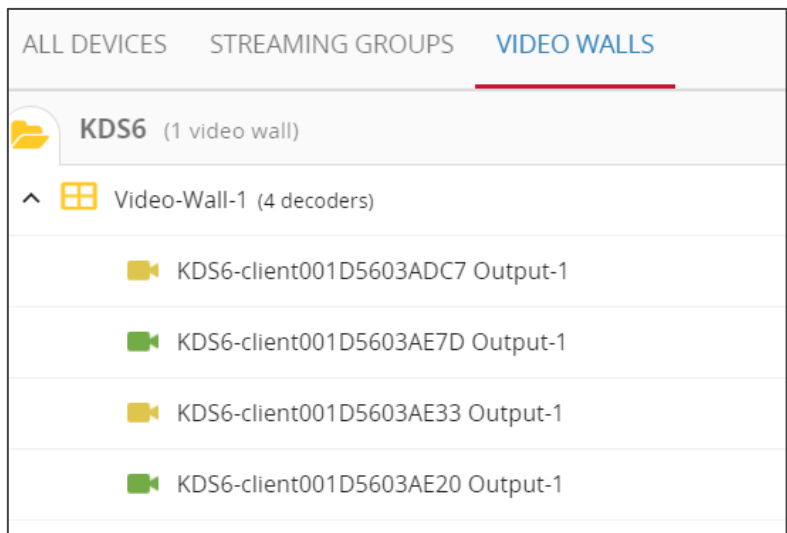


Figure 49: Video Wall – List of Decoders

To create a custom video wall (for example, 2x1):

1. Select **System configuration > DEVICES** tab > **VIDEO WALLS** subtab.
2. Click **...** and select **Add Video Wall**.
3. Set the number of vertical and horizontal screens.

Figure 50: Video Wall – Defining the 2x1 Video Wall

4. Click **✓** to save the layout or **✗** to cancel it.
5. Set the screen bezel and gap and select **mm** or **inch** for measuring.
6. Check **Apply dimensions to all screens** or **Choose Screen** to set each screen separately.
7. Click **APPLY**. The video wall layout is ready.
8. From the **Decoders** list, drag and drop a decoder to its correct position in the screen layout.
9. Click **SAVE**.

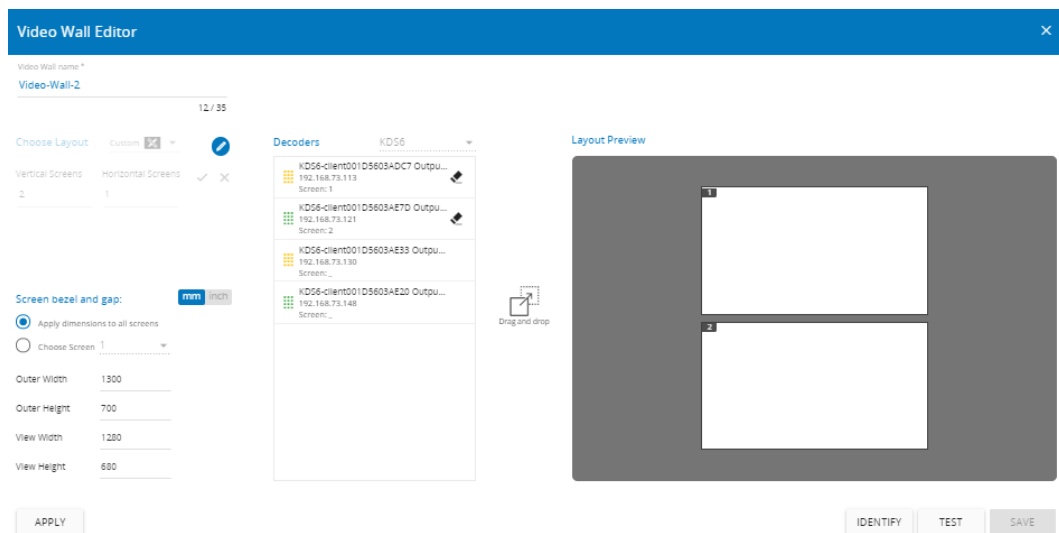


Figure 51: Video Wall – Placing the Decoders

For a given number of decoders you can define more than one video wall. In this example, the VIDEO WALLS tab includes two video wall configurations:

- 2x2 with four screens that are connected to four decoders.
- 2x1 with two screens connected to two decoders which are also part of the 2x2 video wall.

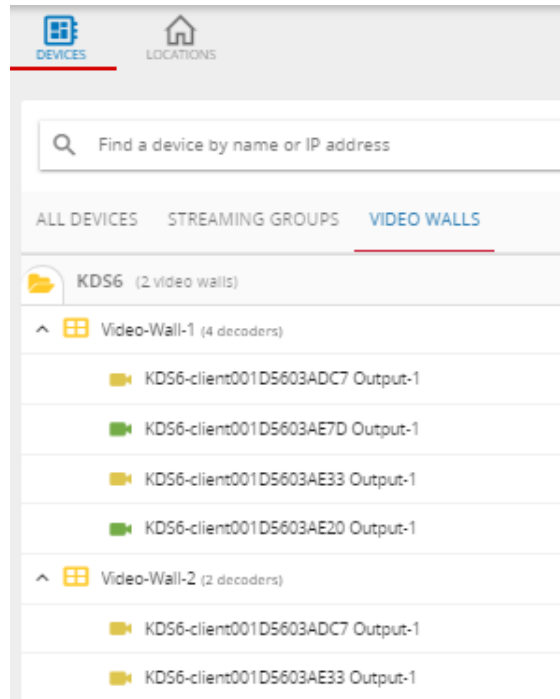


Figure 52: Video Wall Setups

You can get a preview the video wall via MATRIX VIEW in the Manage web page (see [Routing Streaming Devices](#) on page 78).

Creating and Managing Locations

Before assigning a location to each device, you need to create the locations in **KRAMER NETWORK**. To add additional locations, see [Adding a Location](#) on page 41.

To create a location:

1. Select **Locations** tab in the System configuration page. When setting locations for the first time, the following message appears:

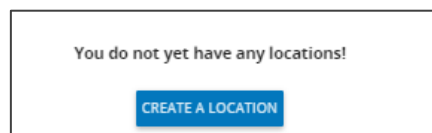


Figure 53: Creating a Location for the First Time

2. Click **CREATE A LOCATION**.

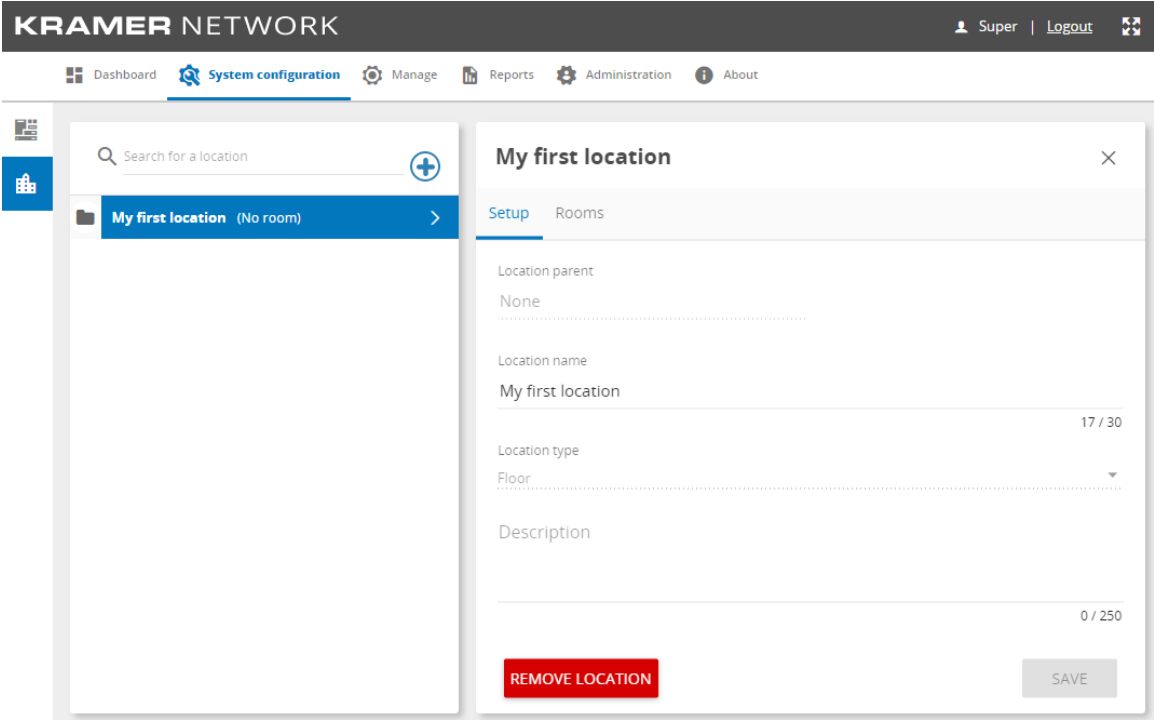


Figure 54: Setting the First Location

3. Under **Location name**, enter the Location name (Floor 6) and Description.

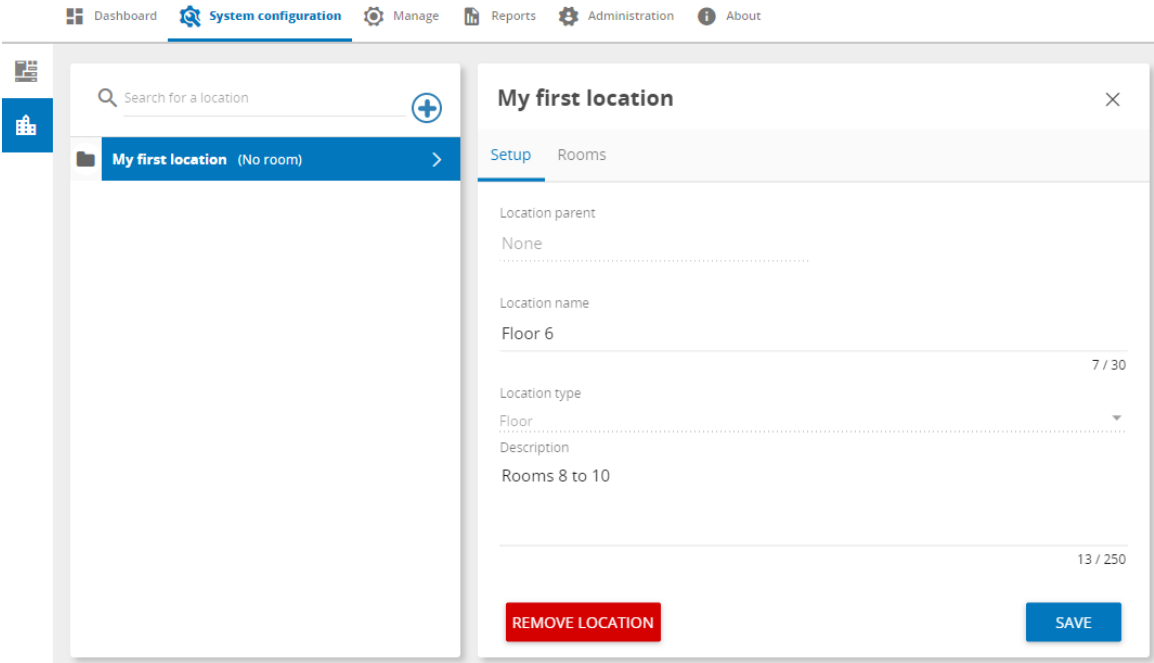


Figure 55: Renaming My First Location

4. Click **SAVE**.

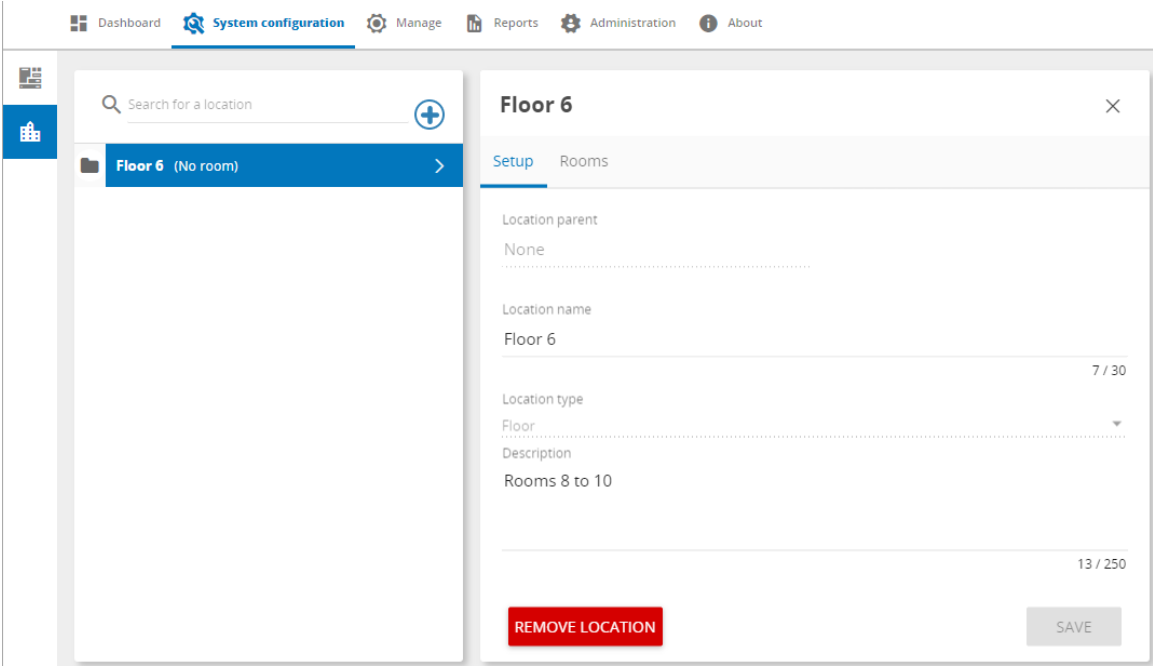


Figure 56: Defined Location

5. Select the **Rooms** tab (in Floor 6).

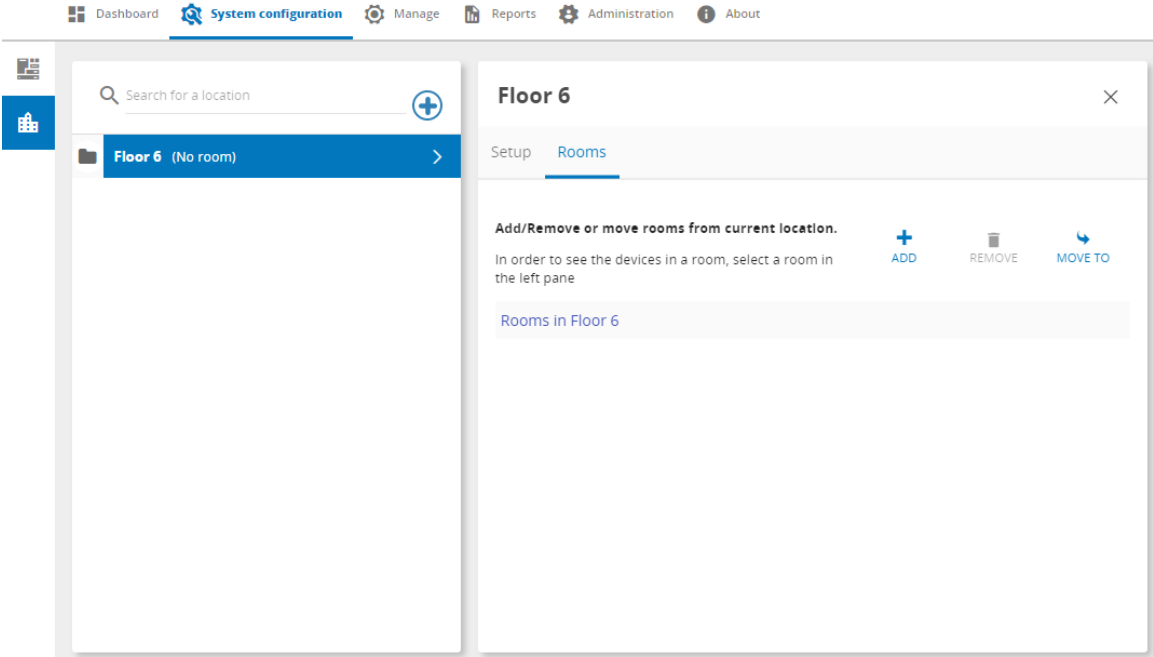


Figure 57: Defining Rooms

- Click **+** ADD to add a new room to Floor 6 and type the new room name:

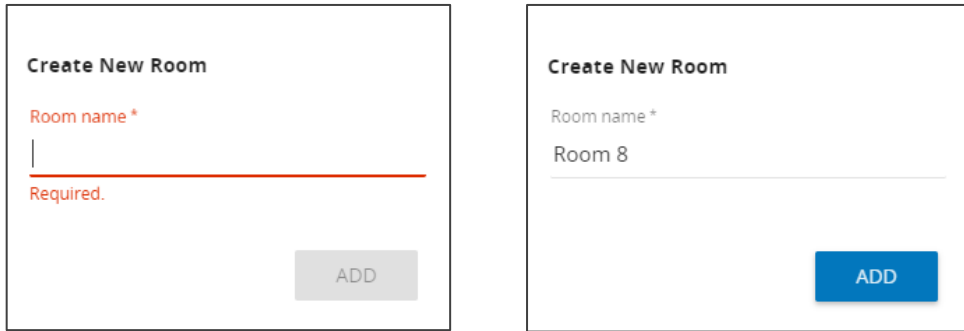


Figure 58: Creating a New Room

- Click **ADD**. The room is added to floor 6.

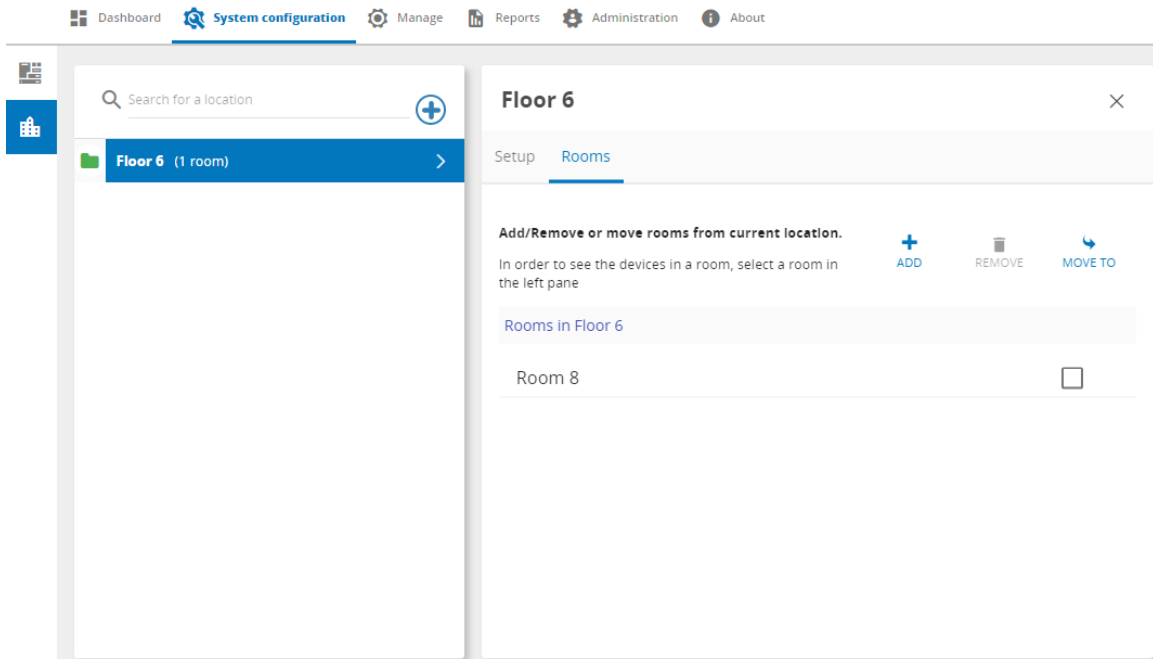


Figure 59: Adding Rooms to the Location

- Add the remaining rooms to Floor 6:

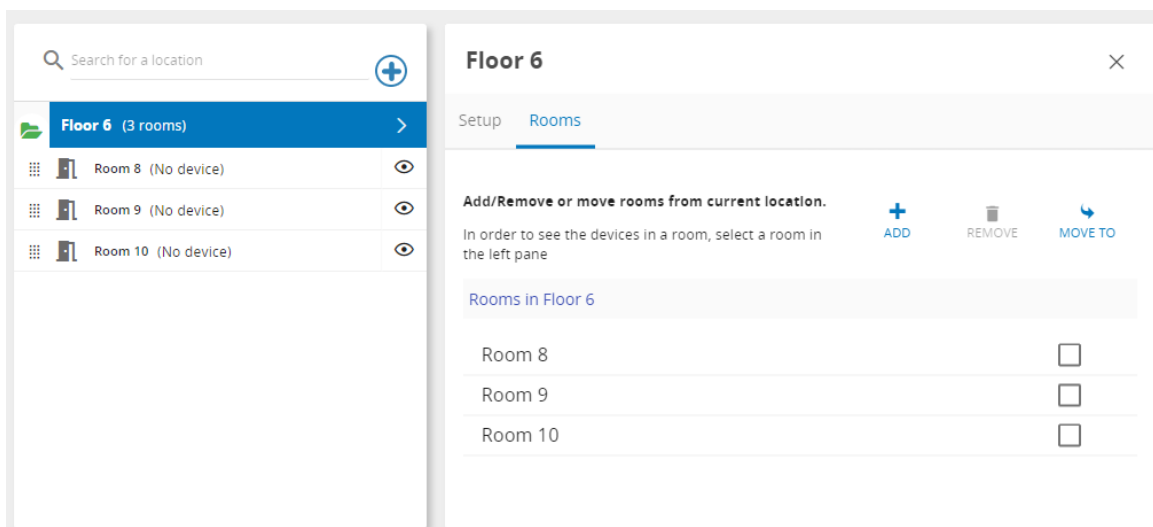


Figure 60: Adding Rooms 8 to 10

9. Once the rooms are added, you can:

- Check a room and click **REMOVE** to remove it from the list.

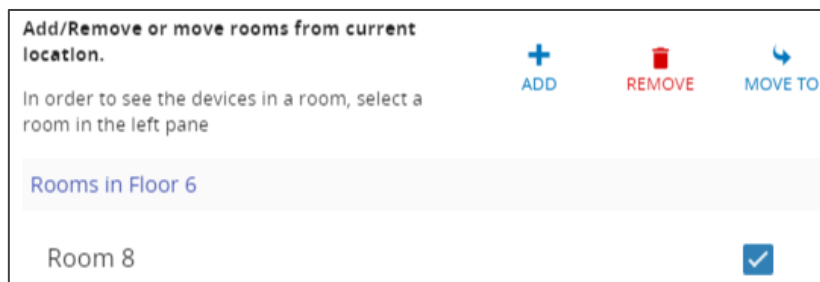


Figure 61: Removing a Room

- Click **+** to add a floor.
- Click **👁** to access the room view (see [Arranging and Designing the Room View](#) on page [60](#)).
- Click **☰** to drag a room to a different location.

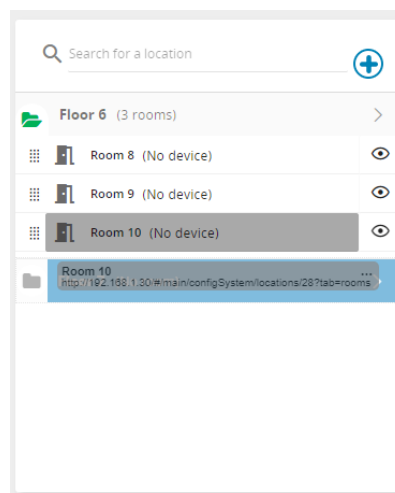


Figure 62: Moving Rooms to a Different Location

- Click **REMOVE LOCATION** in the Setup tab to remove it from the location list. The following message appears:

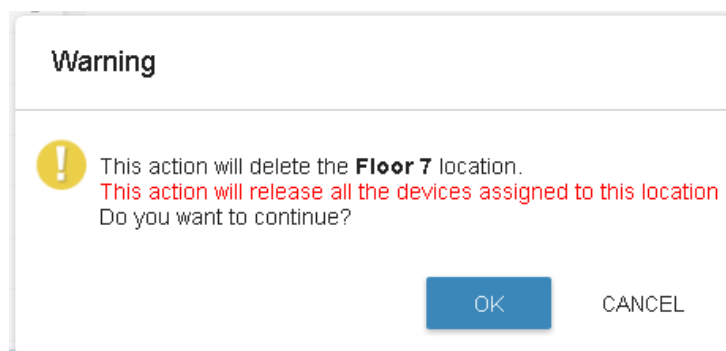


Figure 63: Remove Location Warning

Adding a Location

To add a location:

1. Select **System Configuration** page and then select **Locations** tab.
The Locations tab appears.

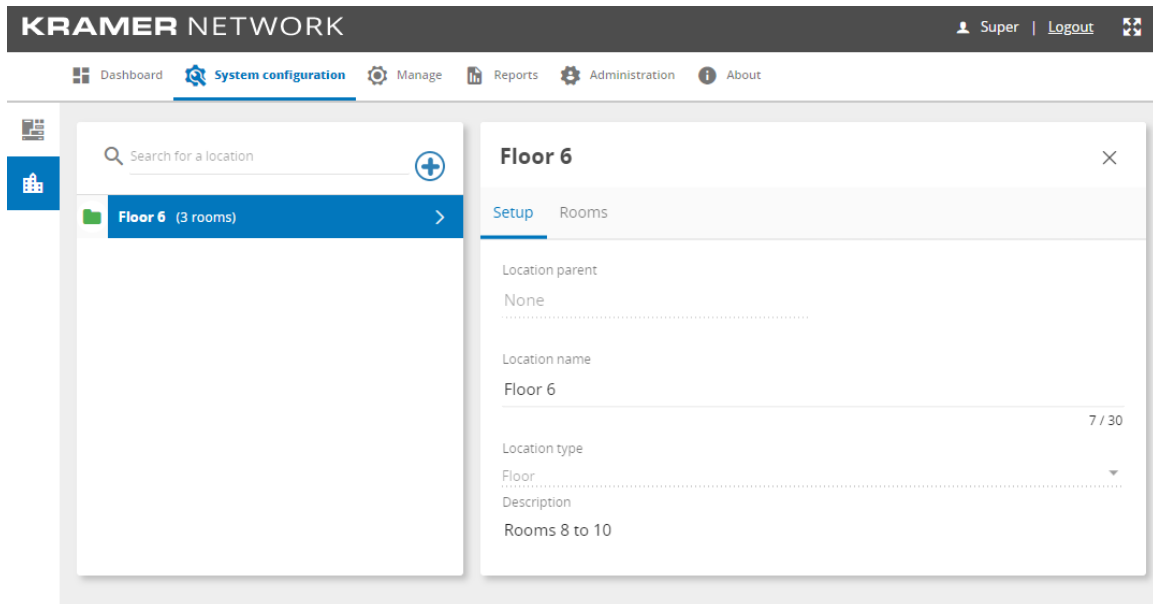


Figure 64: Location Tab

2. Click **+** to add a new location. The new location window appears.
3. Enter the new location name (for example, Meeting Spaces).

Create a new location

Location name *

Floor 7

7 / 30

ADD

Figure 65: Locations – Adding a new Location

4. Click **ADD**.

The screenshot shows a web interface for setting up a new location. On the left, a sidebar lists 'Floor 6 (3 rooms)' and 'Floor 7 (No room)'. The 'Floor 7' item is selected and highlighted in blue. The main panel is titled 'Floor 7' and has a close button (X) in the top right. Below the title are two tabs: 'Setup' (active) and 'Rooms'. The 'Setup' tab contains the following fields:

- Location parent:** A dropdown menu with 'None' selected.
- Location name:** A text input field containing 'Floor 7' with a character count of '7 / 30'.
- Location type:** A dropdown menu with 'Floor' selected.
- Description:** A text input field with a character count of '0 / 250'.

At the bottom of the 'Setup' tab, there are two buttons: a red 'REMOVE LOCATION' button and a grey 'SAVE' button.

Figure 66: Locations – New Location Setup

The new location is added.

Configuring the Rooms

The LOCATIONS tab enables performing the following actions:

- [Setting up the Room](#) on page [43](#).
- [Adding Devices to a Room](#) on page [44](#).
- [Meeting-Room Scheduling](#) on page [46](#).
- [Applying Room Automation via Maestro](#) on page [47](#).

Setting up the Room

Choose a room and select **Setup** to change room name, enter the room description, upload a K-Config virtual control panel and, if required, download K-Config, or remove the room.

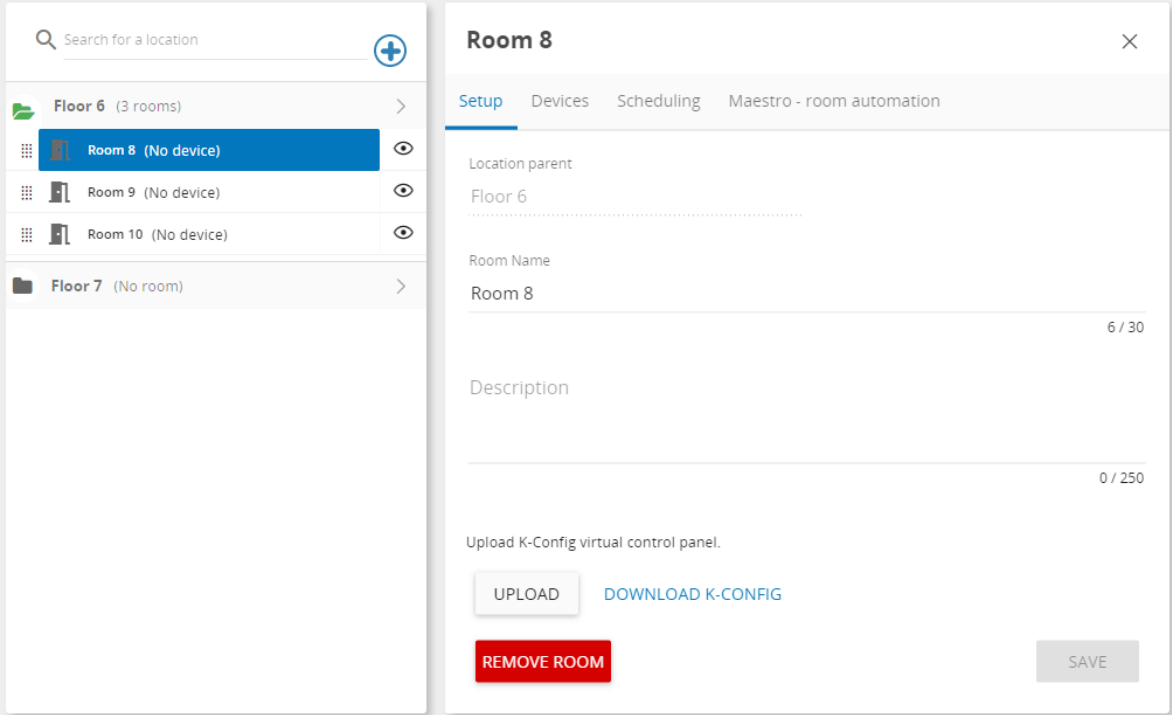


Figure 67: Room Setup

Adding Devices to a Room

To add devices to a room:

1. Choose a room (for example, Room 8) and select **Devices** to add (move or remove) streaming devices, Pro AV devices or video walls to this room.

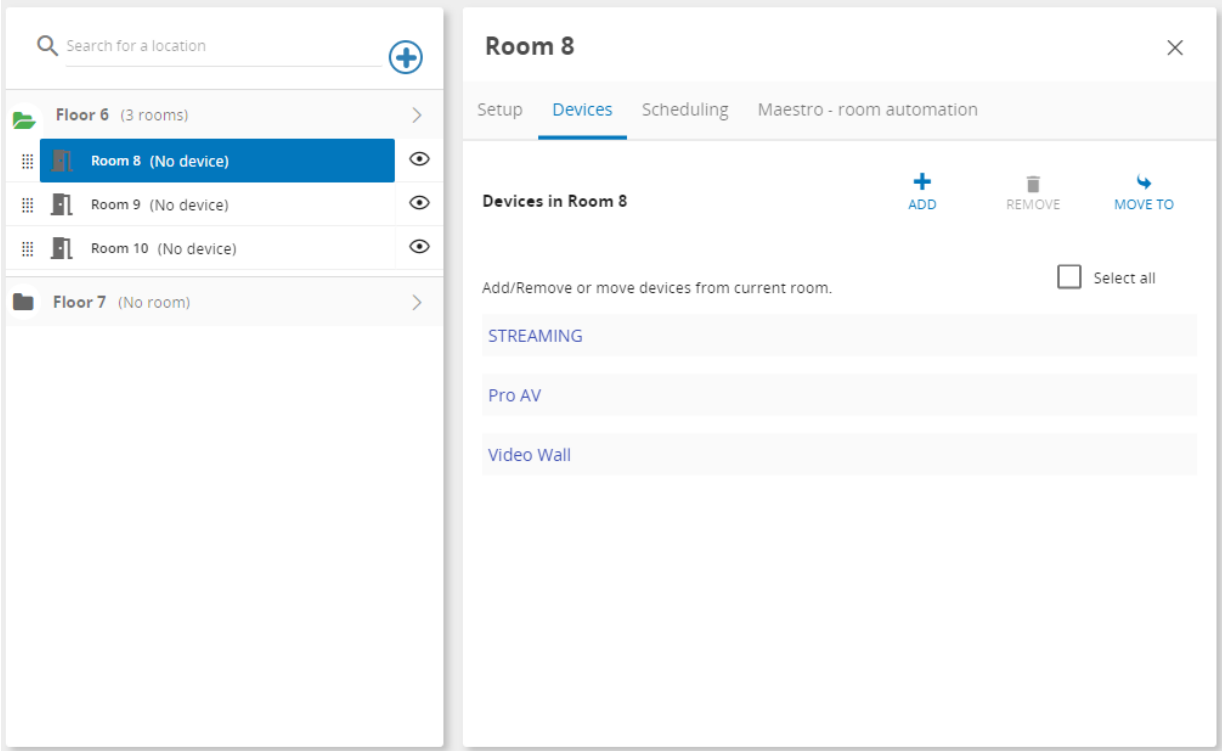


Figure 68: Adding Devices to a Room

2. Click **+ ADD**. The list of devices in your Network appears.

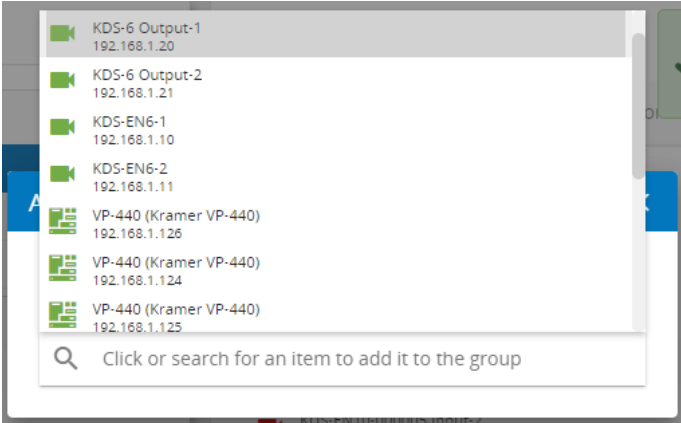


Figure 69: Adding devices to a Room – Device List

3. Select the devices that are assigned to Room 8.

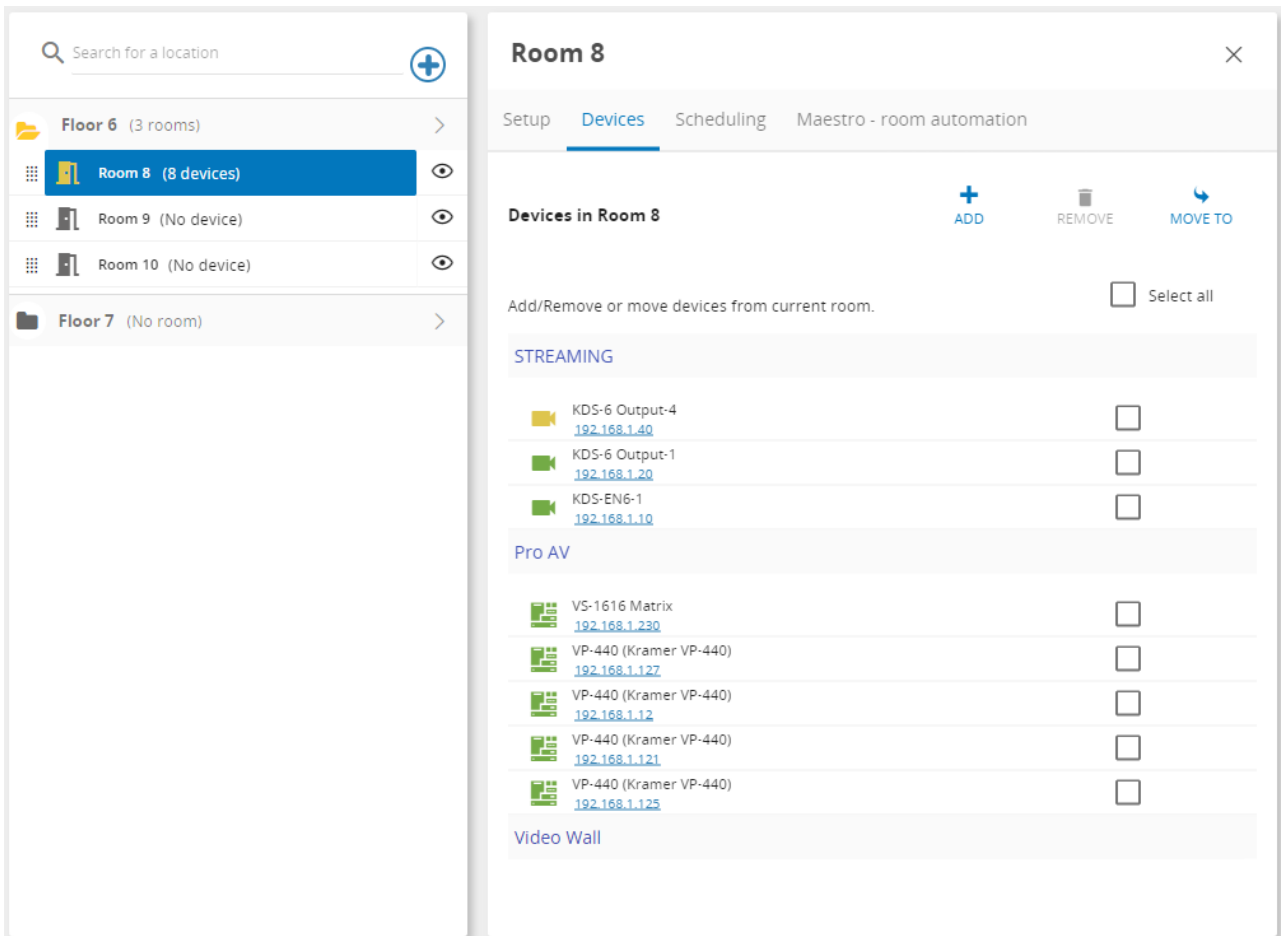





Figure 70: Adding devices to a Room – Devices Assigned to a Room

These include: 3 Pro AV devices (**FC-28**, **RC-74DL** and **PL-50**), 4 streaming devices (**KDS-DEC6** devices) and 2 video-wall configurations.

 The color of the  icon next to the room name indicates the status of the devices in the room (orange indicates that at least one device is awaiting connection and red means that at least one device is disconnected from the Network).

4. In the same way you can add devices to each of the meeting rooms on floor 6.

 An indication appears next to each device that is already assigned to a room. You can also move devices to different rooms by checking the box to the right of the device in a room and clicking **MOVE TO**.

Meeting-Room Scheduling

Each meeting room can be associated to a selectable scheduler. Before doing so, you need to define your LDAP (Lightweight Directory Access Protocol) connection, see [Creating LDAP Connections](#) on page 120. Once LDAP is defined, you can set the Scheduling.

To set the schedule for a room (for example, a training room):

1. In the navigation pane click **System configuration** and then select the **Locations** tab.
2. Select the Scheduling subtab. The following window appears.

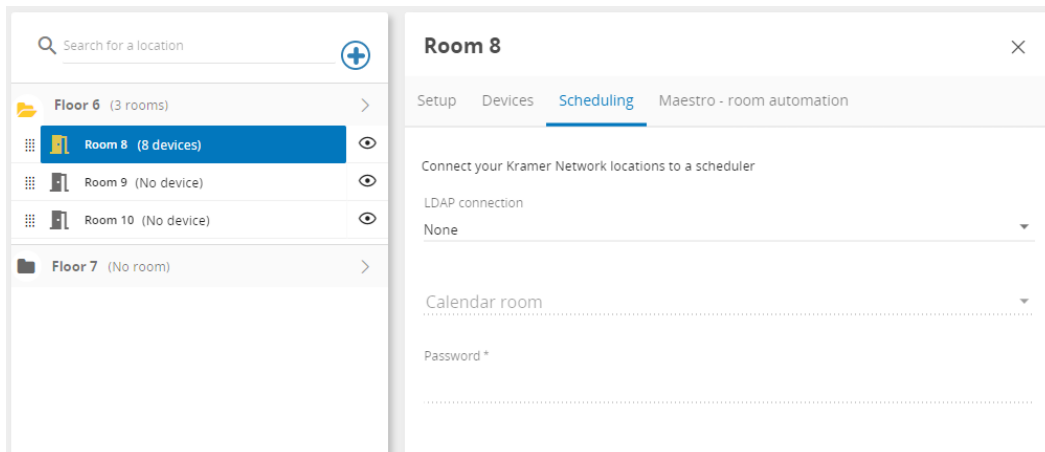


Figure 71: Room Scheduling

3. Select the LDAP connection ("Kramer LDAP" in this example) and wait for the calendar room list to be uploaded:

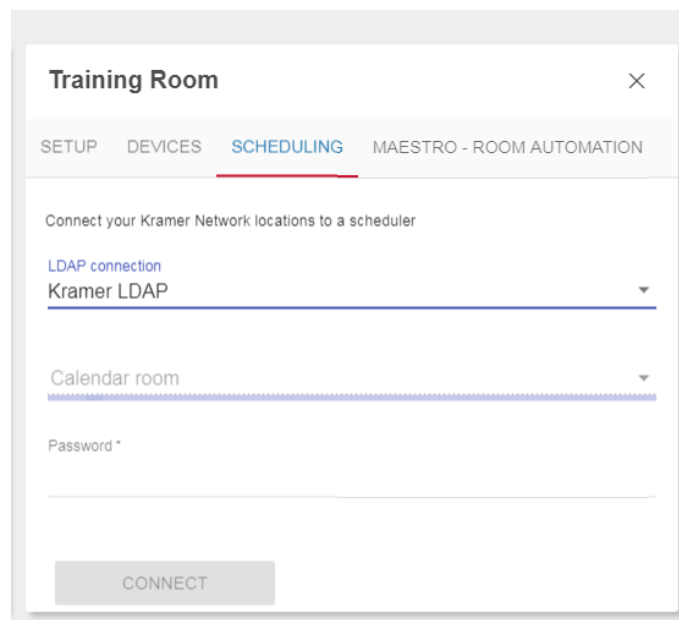


Figure 72: Room Scheduling Selecting LDAP Connection

4. Select a scheduler to associate to your room (KN_test_room1 in this example).

5. Enter the room password.

Figure 73: Room Scheduling Details Added

6. Click **CONNECT**.

This meeting room is associated to the scheduler.

Applying Room Automation via Maestro

Room automation involves creating a trigger (such as a certain day of the week) which activates a script that includes a sequence of actions. Actions may include device commands (such as turning on a projector), sending an email, activating DSP over IP and so on.

To trigger scripts:

- Enter actions through MAESTRO – ROOM AUTOMATION (see [Creating Actions](#) on page 47).
- Add a sequence of actions to a script (see [Creating Scripts](#) on page 55).
- Create a trigger to initialize a script or a list of scripts (see [Creating Triggers](#) on page 58).

Creating Actions

You can create several different types of actions to be activated by your room automation. Each action can be edited, tested or deleted at any stage.

The following action types are available: Device command, DSP-Over-IP, Email, Scenario, SNMP Trap, Upload Maestro Device Configuration, User script and WOL.

To add an action:

1. Select a room in a floor.
2. Select **Maestro – room automation**.

3. Check that **Maestro active** slider is enabled or slide to enable it.

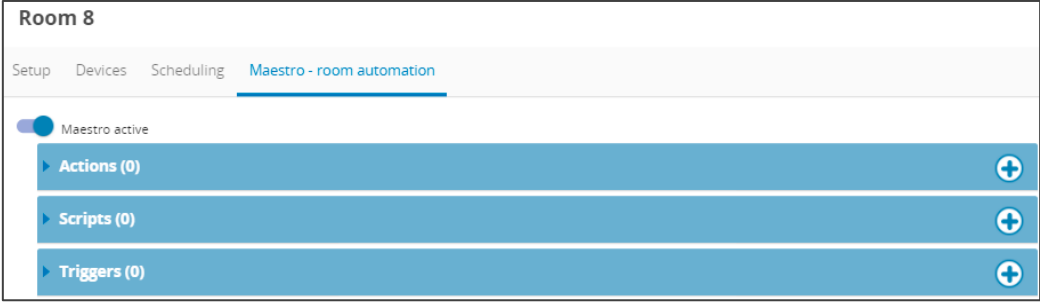


Figure 74: Maestro Room Automation Sub-tab

4. Click **+** next to **Actions** to add a new action.

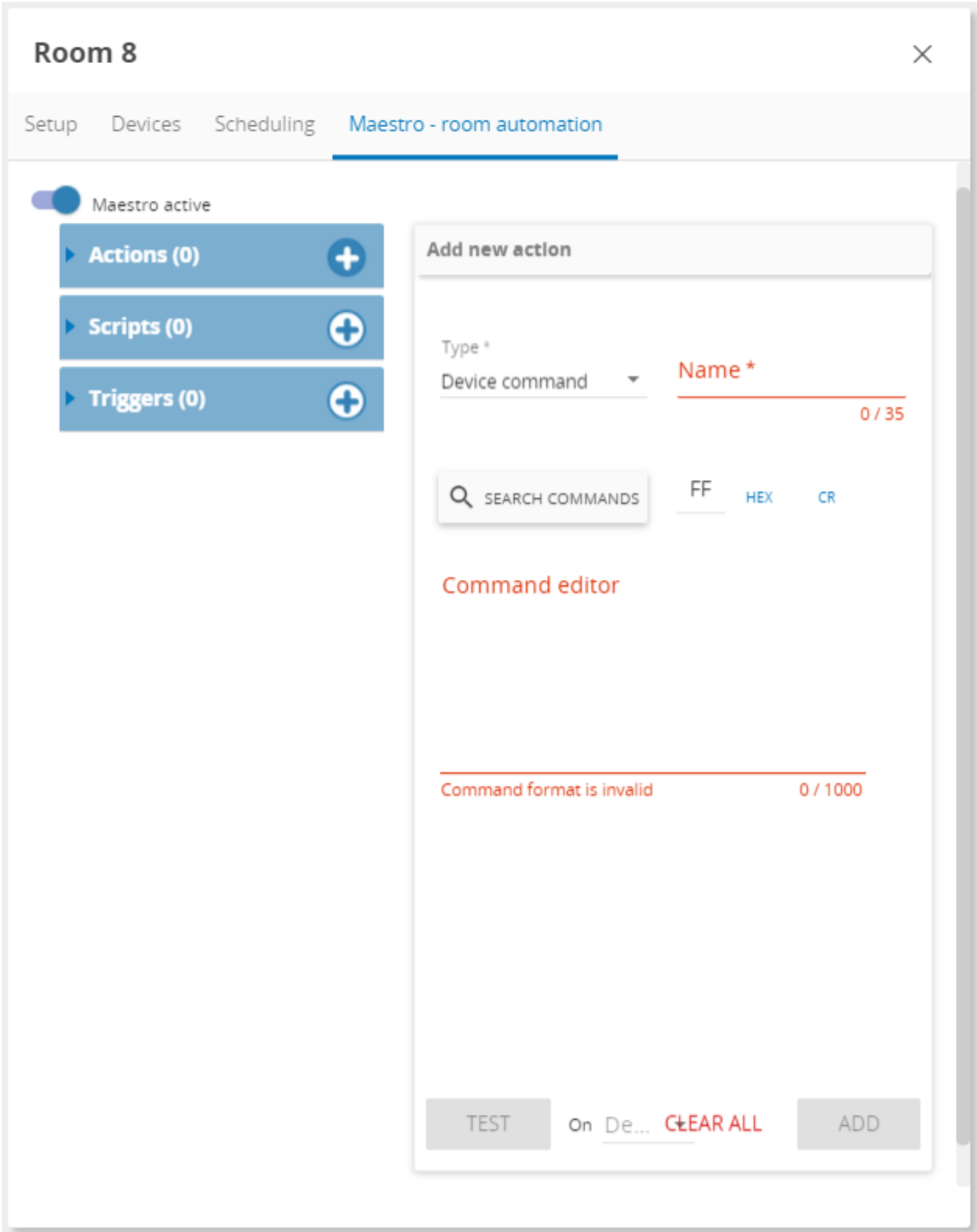


Figure 75: Maestro Room Automation Sub-tab – Actions Window

5. Select the new action **Type** (for example, a **Device command**).

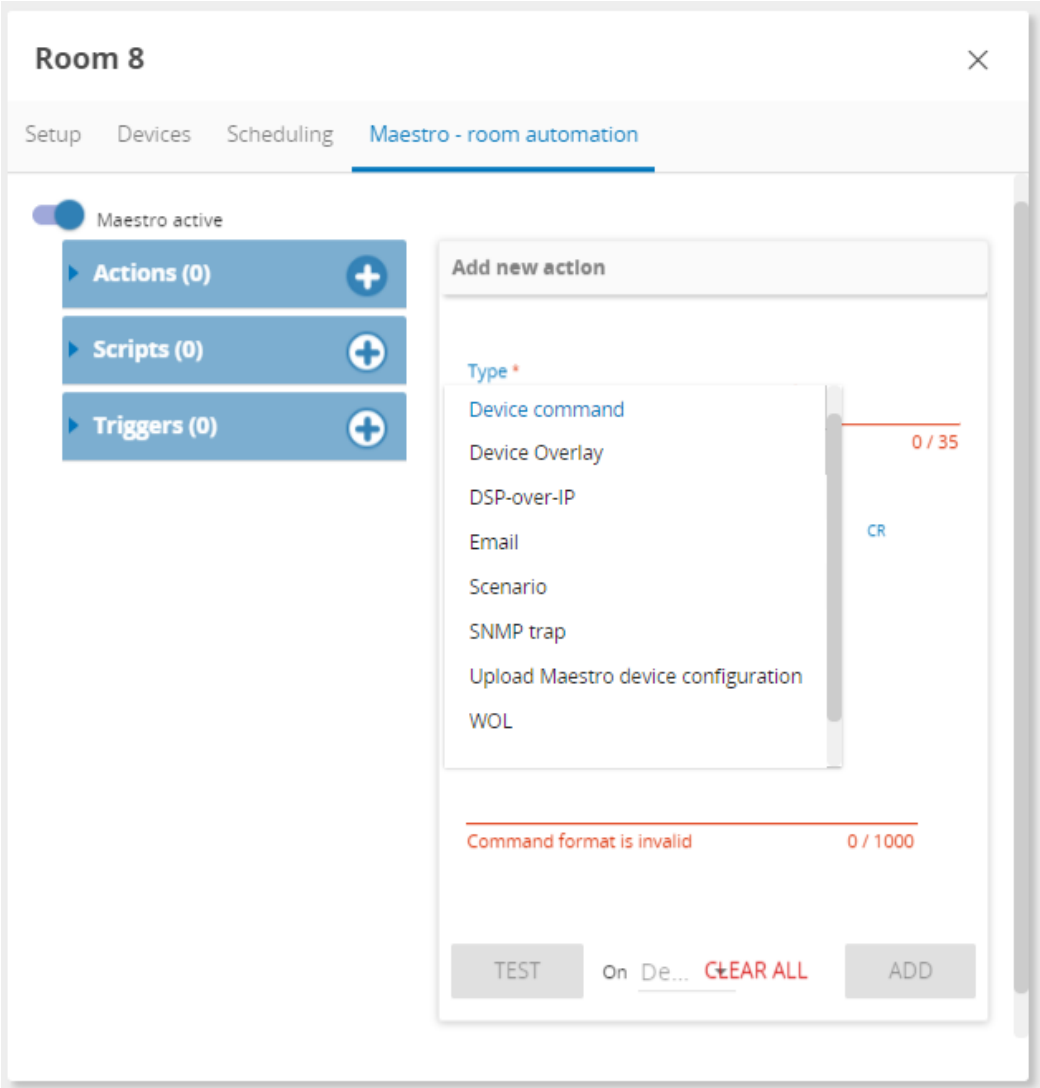


Figure 76: Maestro Room Automation Sub-tab – Adding a Device Command

- 6. Enter the command Name and then either search a command or type the command (click FF, HEX or CR to add common characters).

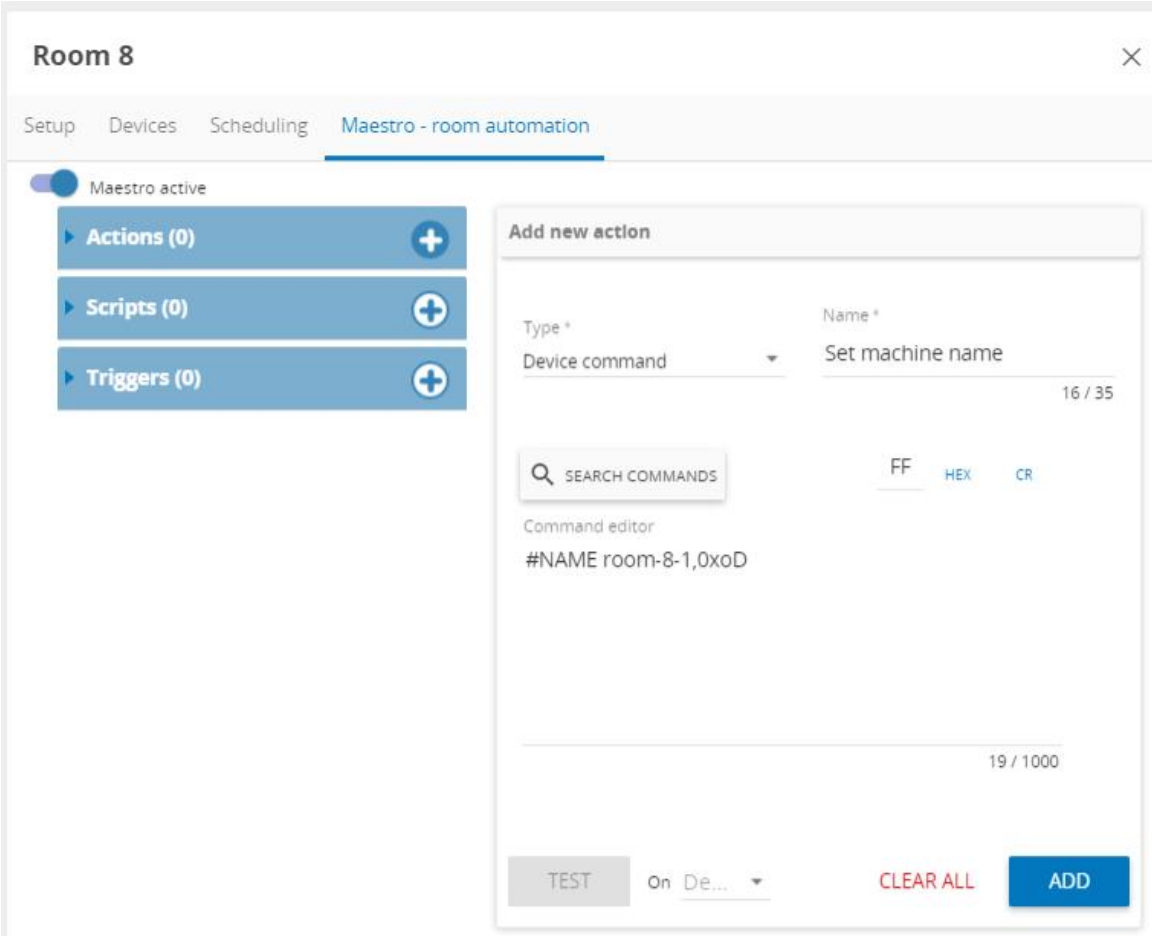


Figure 77: Maestro Room Automation Sub-tab – Entering a Command

- 7. Click **ADD**.
The Action is added to the list:

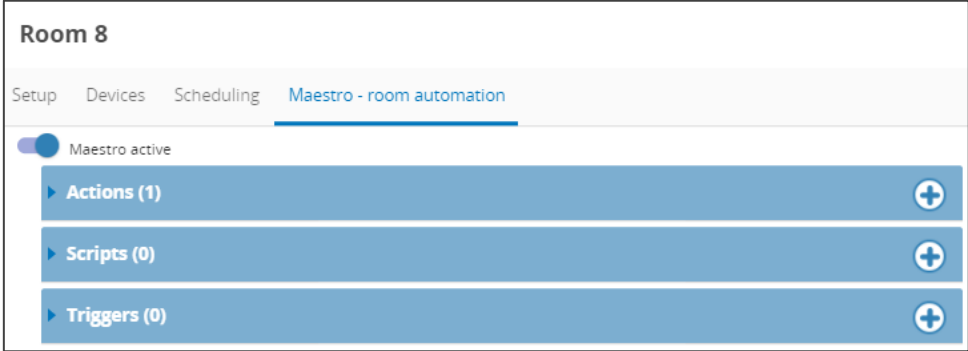



Figure 9: Maestro Room Automation Sub-tab – Action Added

An action is added.

To search a command:

- 1. Click  next to Actions.
- 2. Click **SEARCH COMMANDS**.
The Search commands table appears:

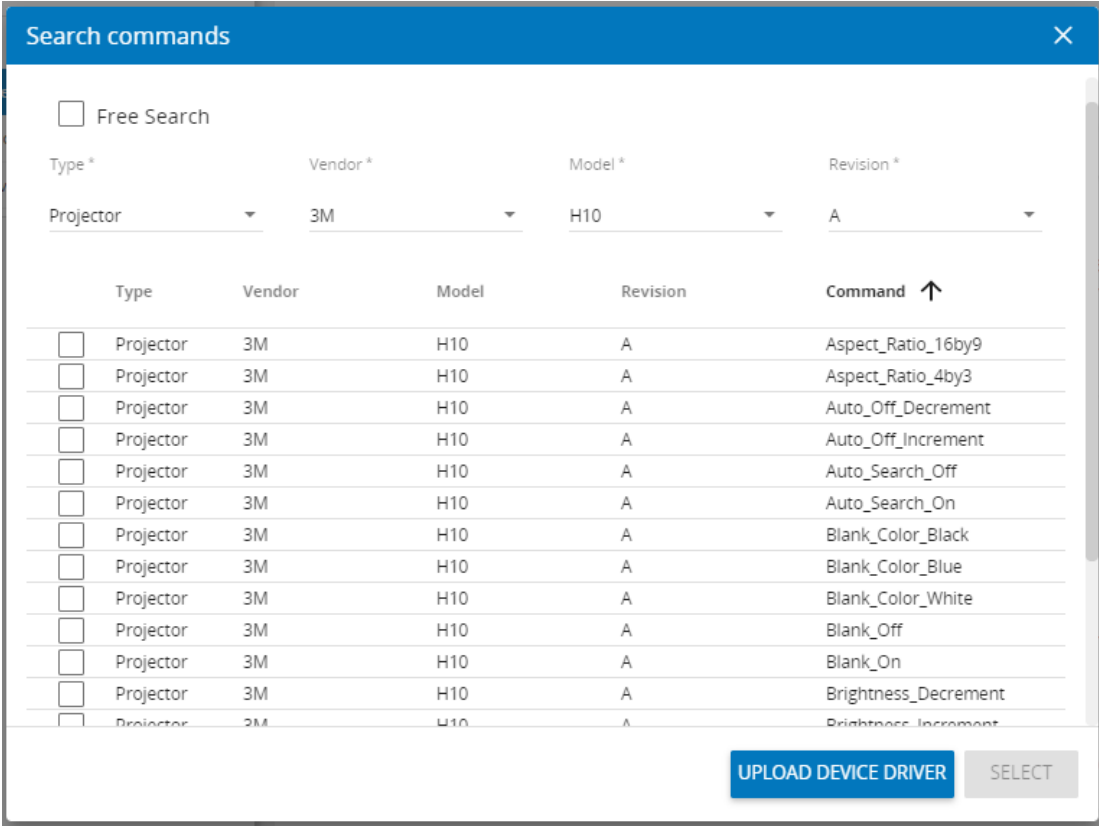


Figure 78: Maestro Room Automation Sub-tab – Searching for a Command

3. Select the Type, Vendor, Model and Revision. For example, select Control, Kramer, PL-50 and Revision A:

Search commands ✕

Free Search

Type* Vendor* Model* Revision*

Control Kramer PL-50 A

	Type	Vendor	Model	Revision	Command ↑
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port1_Off
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port1_On
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port2_Off
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port2_On
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port3_Off
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port3_On
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port4_Off
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port4_On
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port5_Off
<input type="checkbox"/>	Control	Kramer	PL-50	A	Port5_On
<input type="checkbox"/>	Control	Kramer	PL-50	A	SWITCH_STATUS

UPLOAD DEVICE DRIVER
SELECT

Figure 79: Maestro Room Automation Sub-tab – Selecting a Command



You can also:

Check **Free Search** to perform a free search.

Click **UPLOAD DEVICE DRIVER** and follow the instructions to add a new device driver.

4. Select a command.

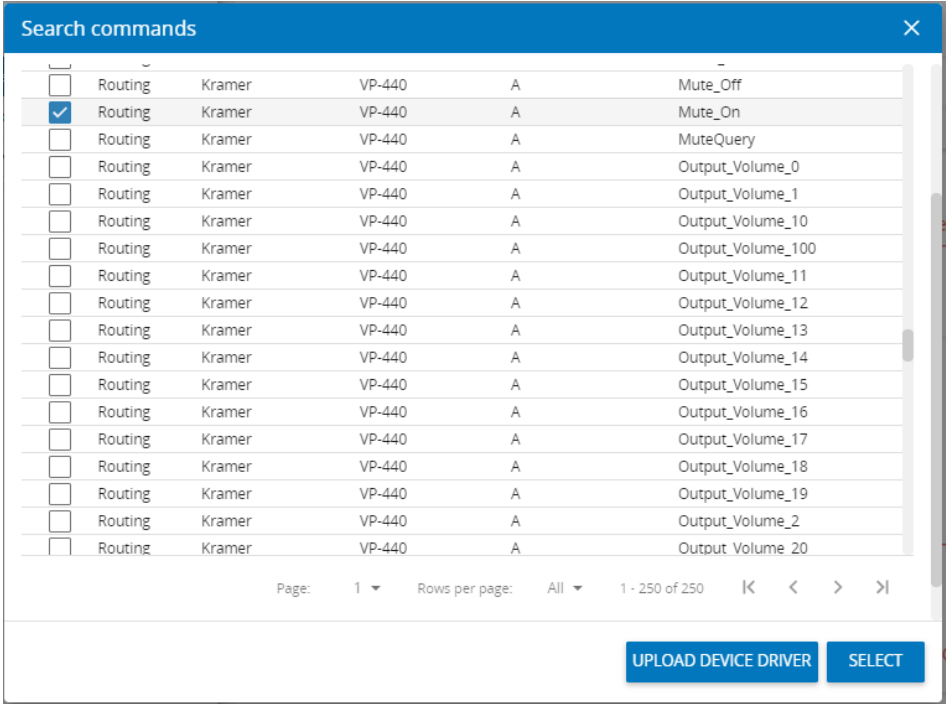


Figure 80: Maestro Room Automation Sub-tab – Selecting an Action

5. Click **SELECT**. The new action is added to the command editor.

6. Enter the command name:

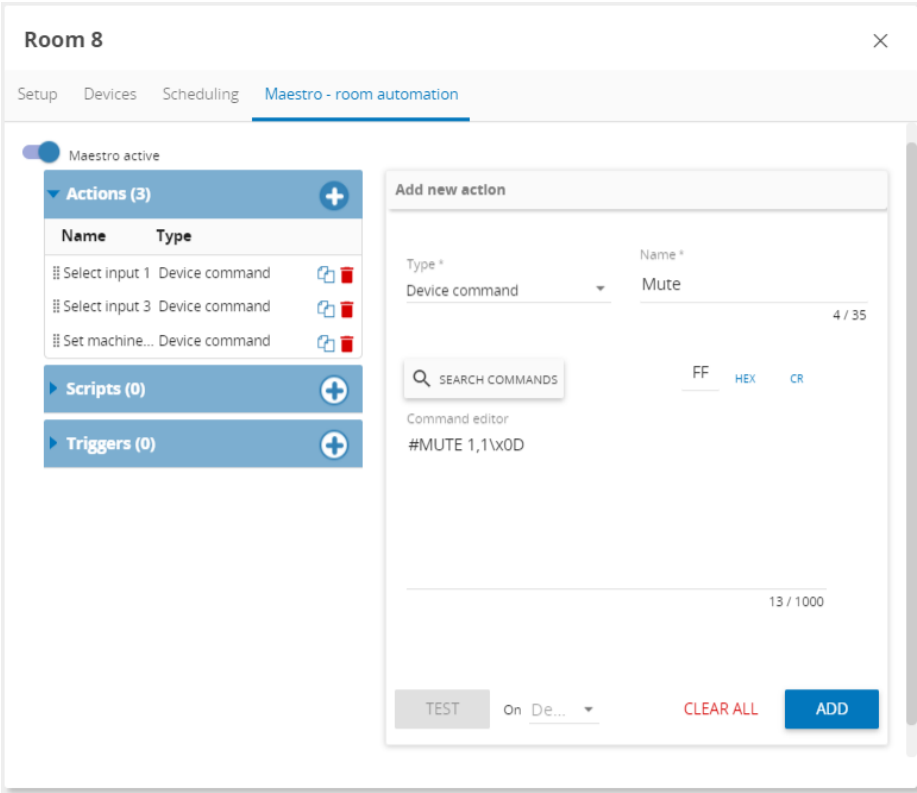


Figure 81: Maestro Room Automation Sub-tab – Action Name

7. Click **ADD**.

In the same way add all the commands to the action list.

The Command is added.

The number of commands in the Actions list appears next to **Actions**. Click the arrow next to Actions to view the list of commands:

Maestro active

▼ Actions (4) +

Name	Type
Mute	Device command
Select input 1	Device command
Select input 3	Device command
Set machine name	Device command

▶ Scripts (0) +

▶ Triggers (0) +

Figure 82: Maestro Room Automation Sub-tab – Actions List




You can drag-and-drop an action from the Action list to the Scripts action list.

Other types of actions require the following data:

Action Type	Enter the following Data
Device Overlay	Name, overlay project.
DSP-over-IP	Name, audio channel, DSP action (enable or disable).
Email	Name, Send to and cc.
Scenario	Name, Run scenario (select a scenario).
SNMP Trap	Name, select SNMP trap name, select Alert level, Message. You need to configure SNMP settings first.
Upload Maestro device configuration	Name, Select Maestro device; select Maestro configurations for the selected device.
User script	Name, click LOAD SCRIPT.
WOL	Name, add the MAC address of the device, select the port.

Creating Scripts

A script includes a sequence of actions. This section describes how to create scripts from the list of actions.

 In this section, the script examples show actions that are different than the actions obtained in [Creating Actions](#) on page 47.

To create a script:

1. Click  next to **Scripts**. The Scripts window appears:

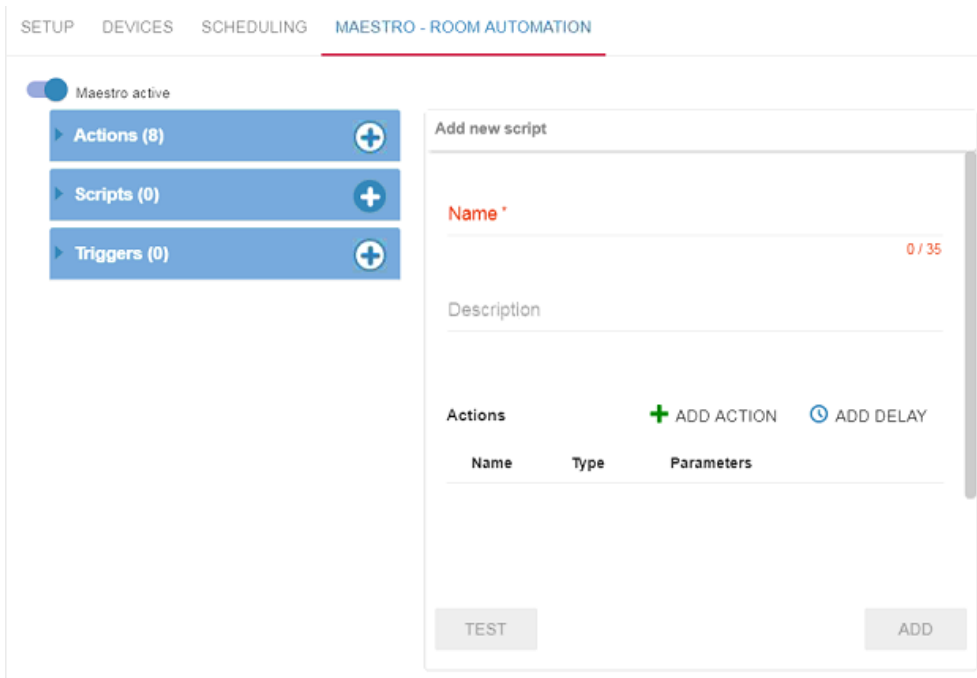



Figure 83: Maestro Room Automation Sub-tab – Scripts Window

2. Enter the Script Name and Description and click  **ADD ACTION** (an Action line appears).

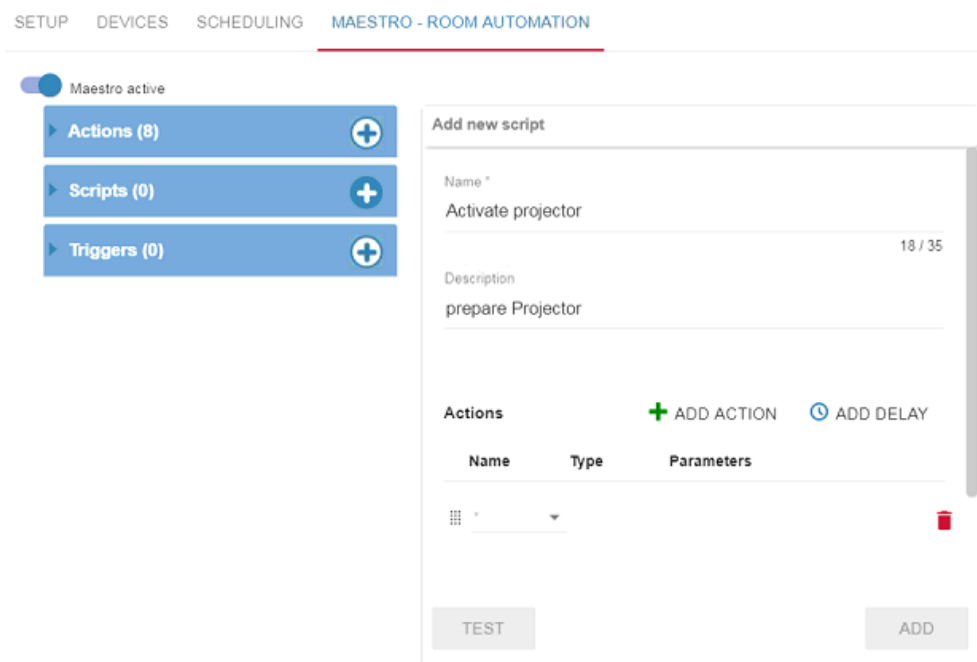


Figure 84: Maestro Room Automation Sub-tab – Adding an Action Line

3. Click the **Name** drop-down-box to select an action (the action type appears).

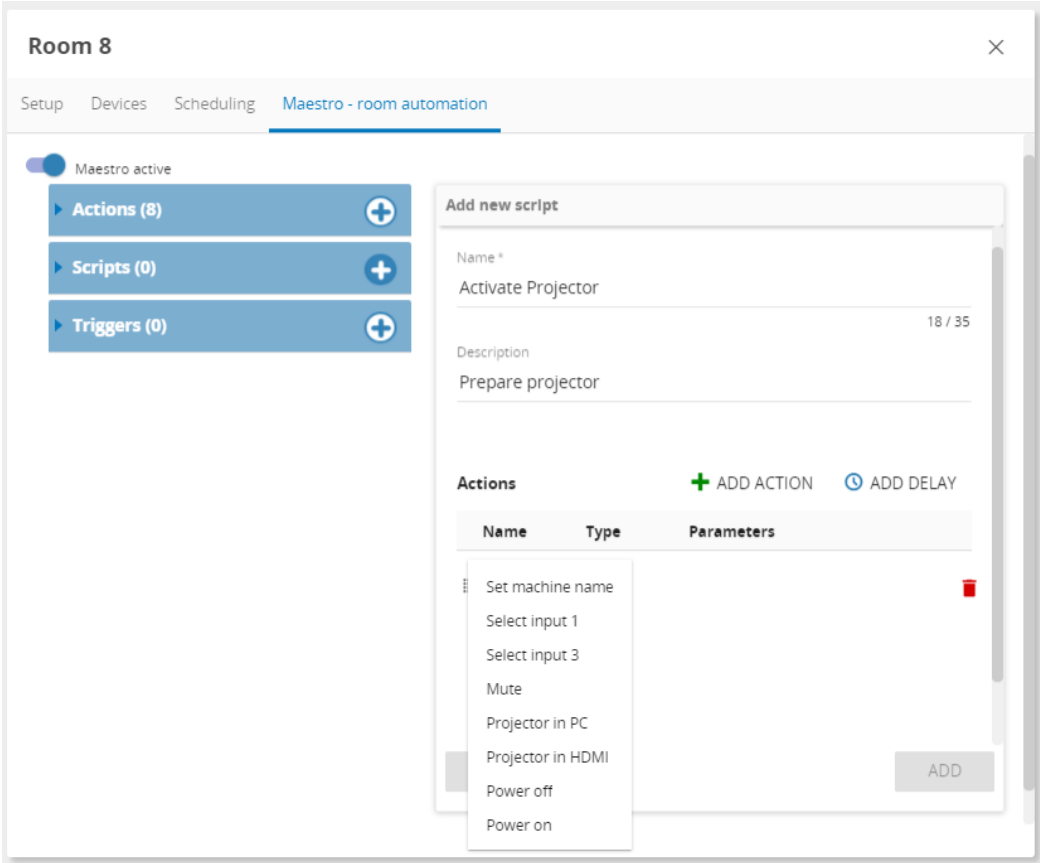


Figure 85: Maestro Room Automation Sub-tab – Selecting an Action

4. Select **Parameters**.

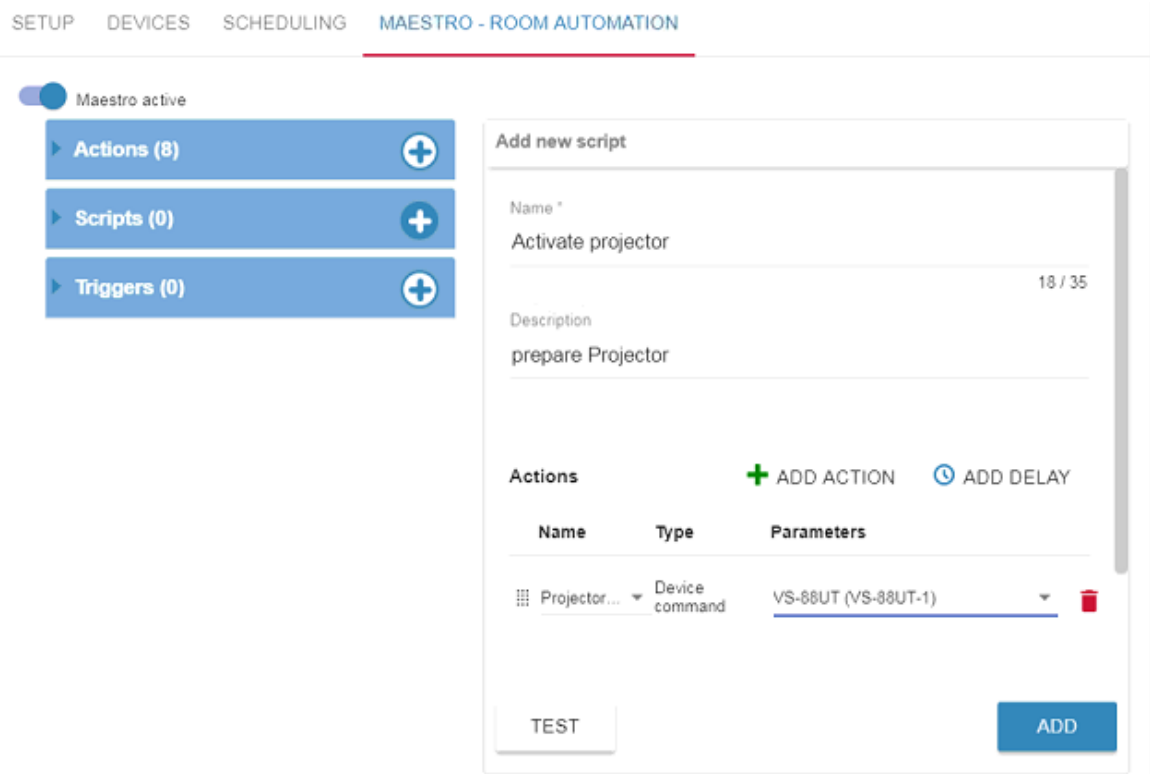



Figure 86: Maestro Room Automation Sub-tab – Selecting the Parameter

- 5. Add any number of Actions and delays to the script. If required, click  to move an action/delay line up or down.

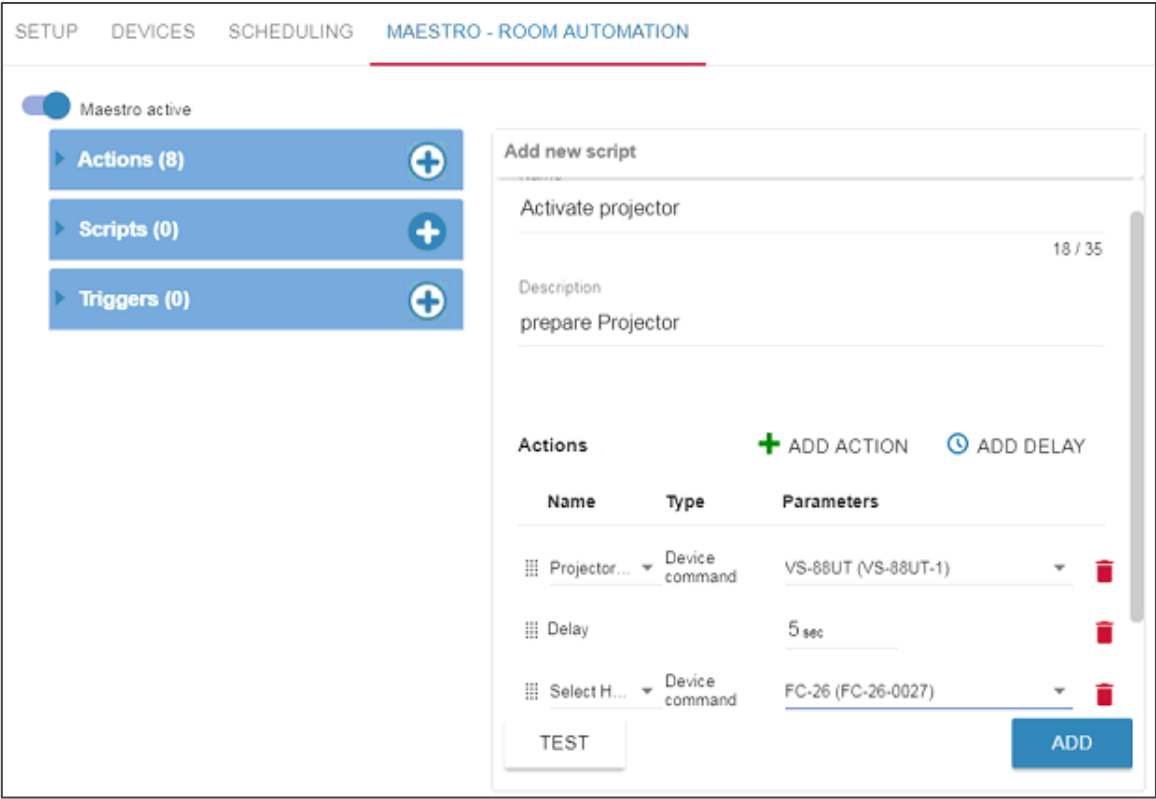



Figure 87: Maestro Room Automation Sub-tab – Actions Added to the Script

 You can open the Action list and then drag-and-drop an action from the list to the Scripts action list.

- 6. Click **ADD**.
You can edit a script by standing on the script line.

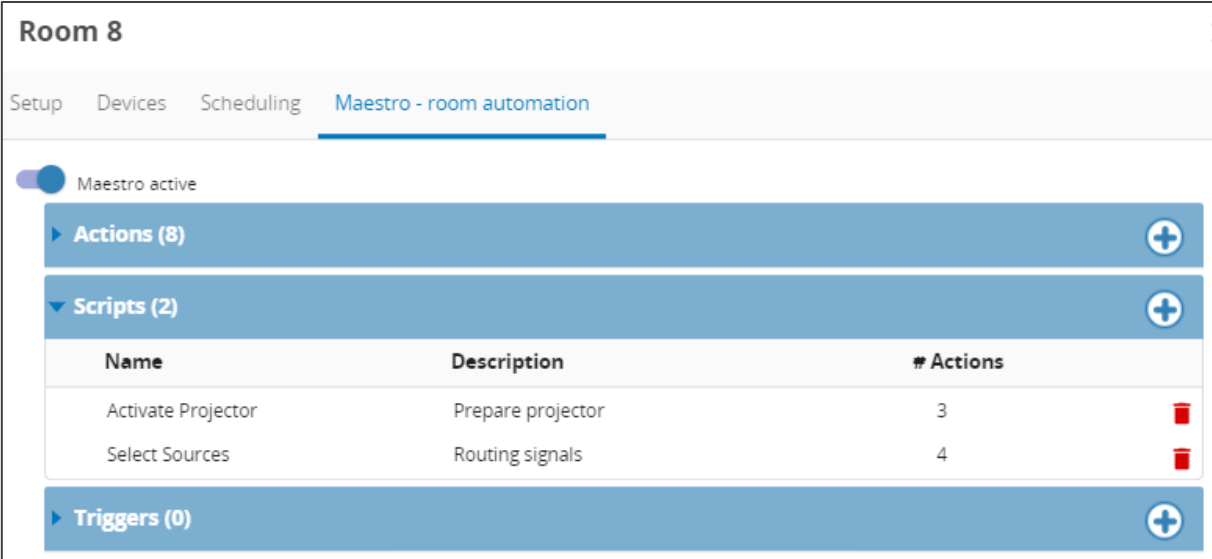


Figure 88: Scripts List

A script is created.

Creating Triggers

A script is carried out by a trigger.

To create a trigger:

- 1. Click **+** next to **Triggers**.
The Triggers window appears:
- 2. Select the trigger Type from the list (for example, recurring event).

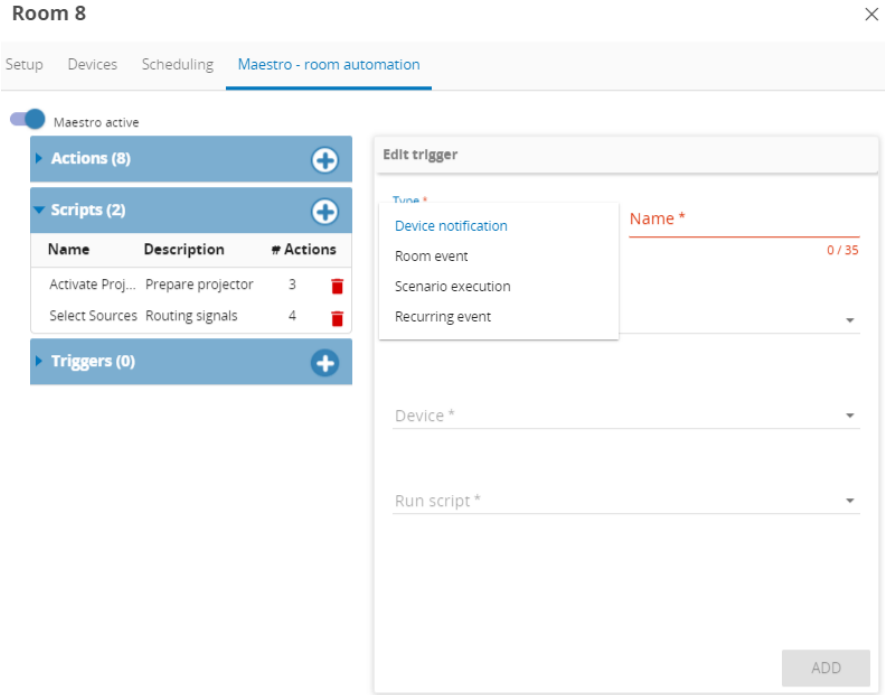


Figure 89: Maestro Room Automation Sub-tab – Triggers Window

- 3. Enter the trigger name and select the trigger status.
- 4. Set the scheduling type to weekly (select the days and time) or a one-time event (select the date and time).

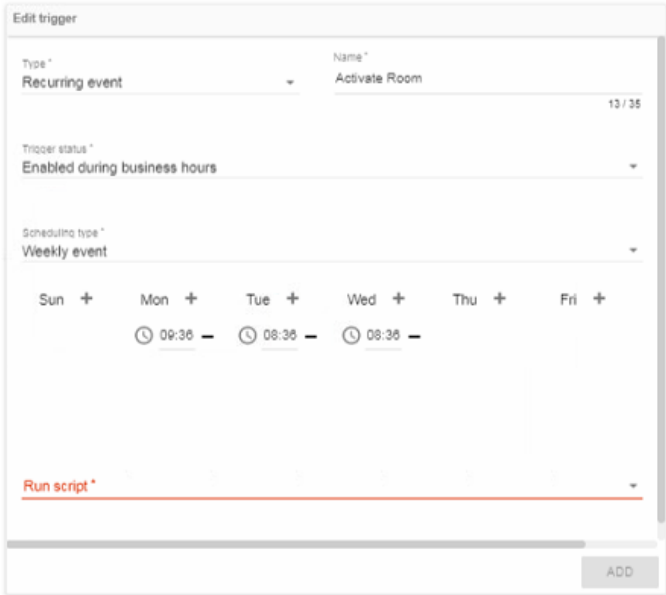


Figure 12: Maestro Room Automation Sub-tab – Creating a Trigger

5. Select the script from the list.

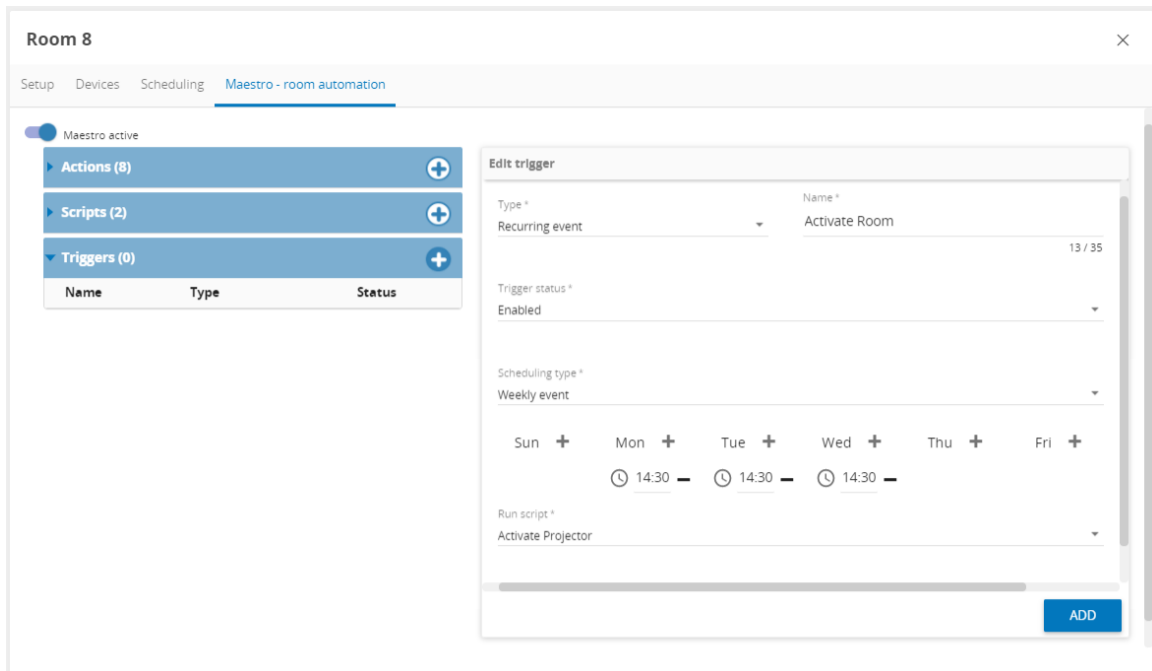


Figure 90: Maestro Room Automation Sub-tab – Adding the Run Script

6. Click **ADD**.

In the same way, add as many triggers as required.

Available trigger types include:

- **Device notification** – The script is triggered once the selected device connectivity is ON/OFF or if an incoming generic message from the device is sending a predefined value (a device control software sends a certain value to **KRAMER NETWORK** via port 3340, by default – this default port number can be changed via the utilities software).
- **Room event** – The script is triggered before/after a meeting.
- **Scenario execution** – The script is triggered once a selected scenario is carried out (within/out office hours).
- **Recurring event** – The script is triggered once a weekly (day and time) or one-time (date and time) event occurs.

Manage Page

The **Manage** page enables performing the following:

- [Arranging and Designing the Room View](#) on page [60](#).
- [Managing Pro AV and AV Streaming Devices](#) on page [75](#).

Arranging and Designing the Room View

Use the Room View tab to arrange and design the room view.



Admins can be granted permission to access a group of rooms from the Super. Users can be granted permission to access specific rooms from Admins.

In the Room view you can:

- Select rooms (to edit) and Pro AV devices (to add to a room) from the left-side column.
- Create or edit the room view within the center window.
- Associate scenarios (created in the **Matrix view** tab, see [Managing Pro AV and AV Streaming Devices](#) on page [75](#)) via the **Scenarios** column to the right.

To access the Room view:

1. In the navigation pane click **Manage** and then select the **Room view** tab. The following window appears:

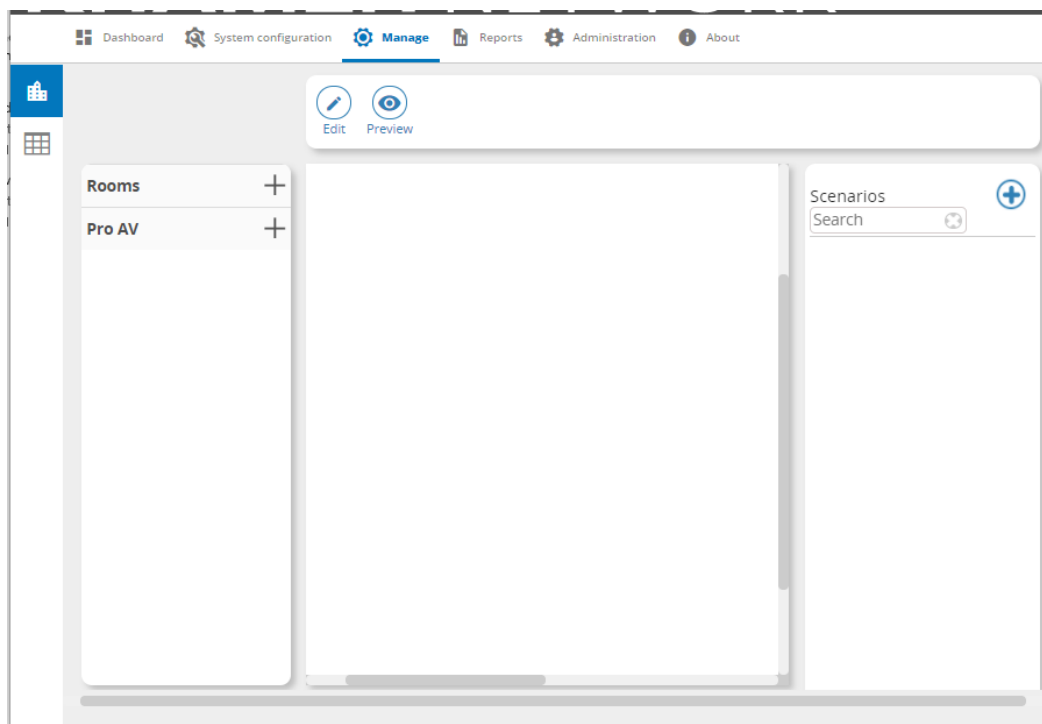



Figure 91: Room View

2. Click + next to **Rooms** to open the room view.

Room view is open.

Uploading Room View Images

To upload the room view images:

1. In the navigation pane click **Manage** and then select the **Room view** tab.
2. Click  to open the room view editing options. All the editing options are displayed:

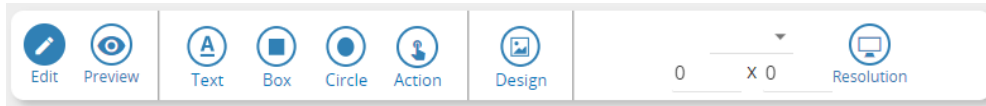



Figure 92: Room View Edit Bar

3. Click  to download the images that you will use. The manage images window appears:

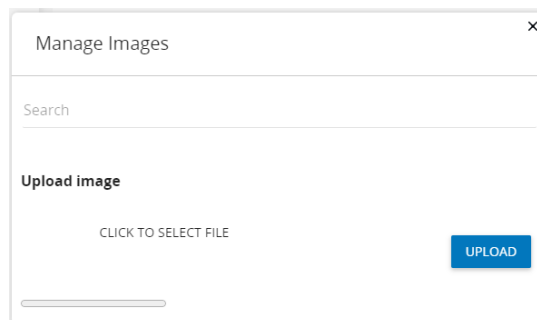


Figure 93: Downloading Images

4. Click **CLICK TO SELECT FILE**.
5. Select a background and click **Open**. You can change the background file names.
6. In the **Image name** text box, type its name and click **Upload**. In the same way select all the background images you need.

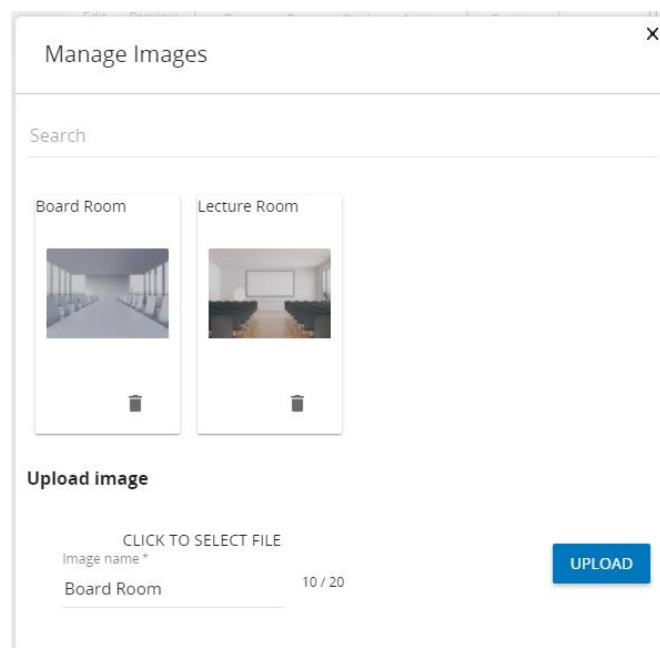


Figure 94: Uploaded Images

7. Click **x** at the top right to exit the **Manage Image** window. Images are uploaded.

Designing the Room View

To design the room view (Room 8 on Floor 6 in this example):

- 1. In the navigation pane click **Manage** and then select the **Room view** tab.
- 2. Click **+** to view the list of available rooms on floor 6.

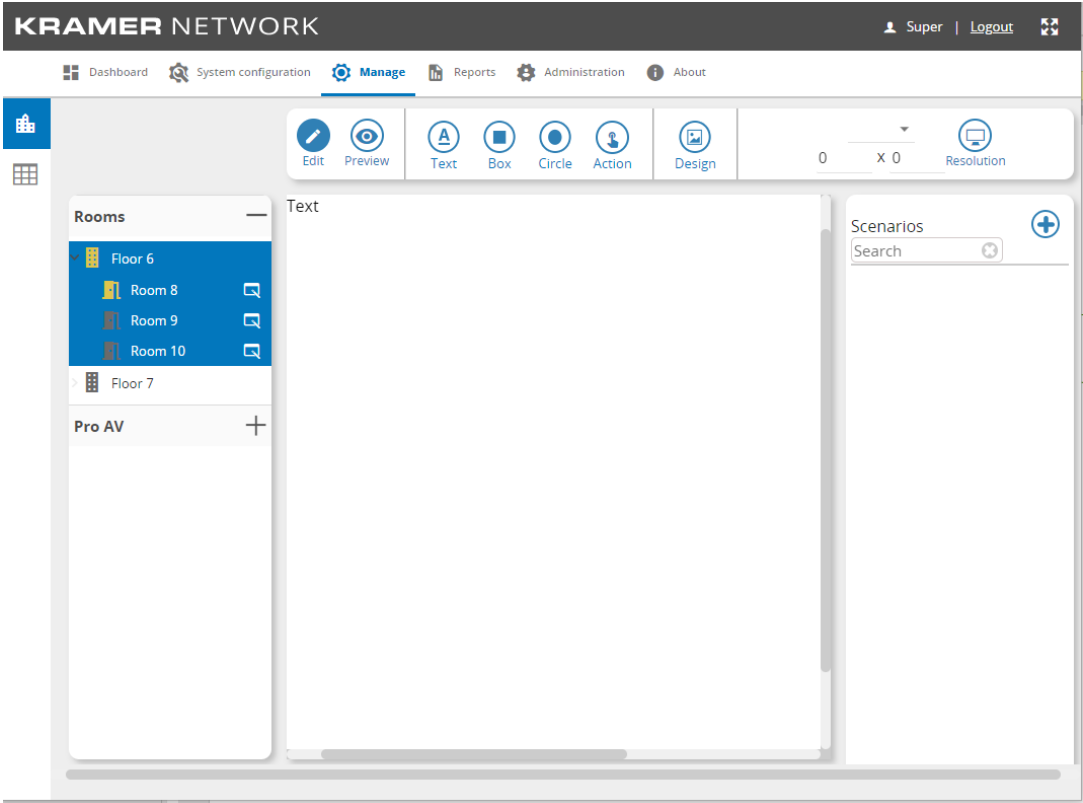


Figure 95: Floor 6 Room List

3. Select Room 8. Room 8 appears and displays the associated devices.

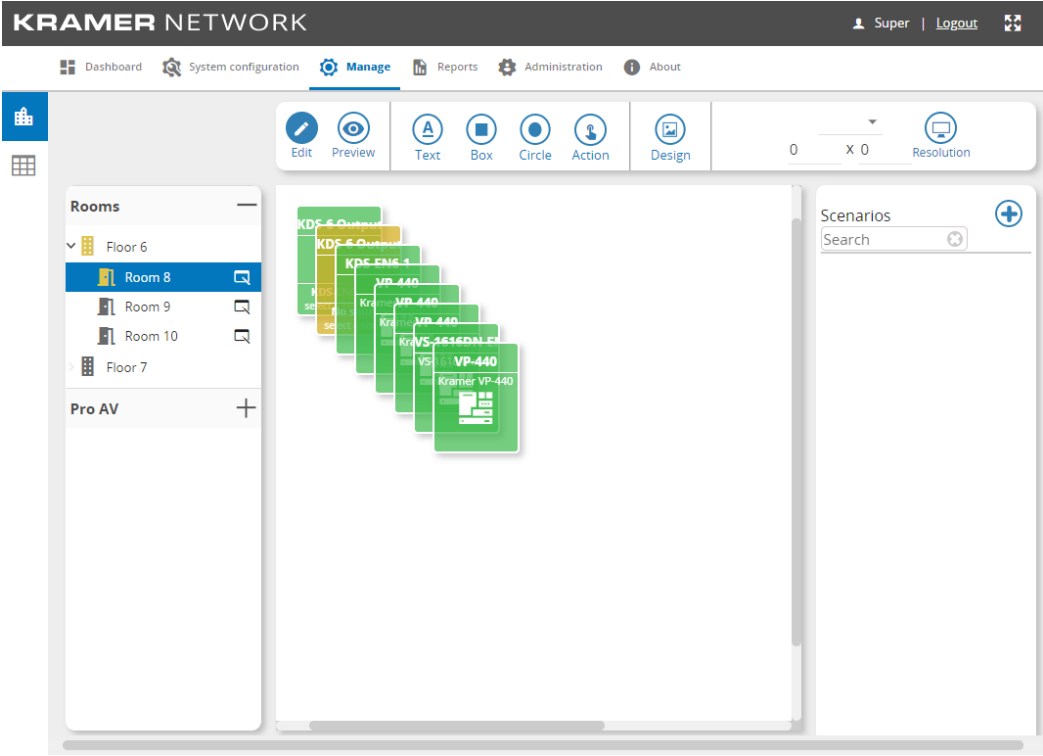


Figure 96: Devices in a Room

4. Click  .

5. Right-click the room-view window. The background dialog box appears:

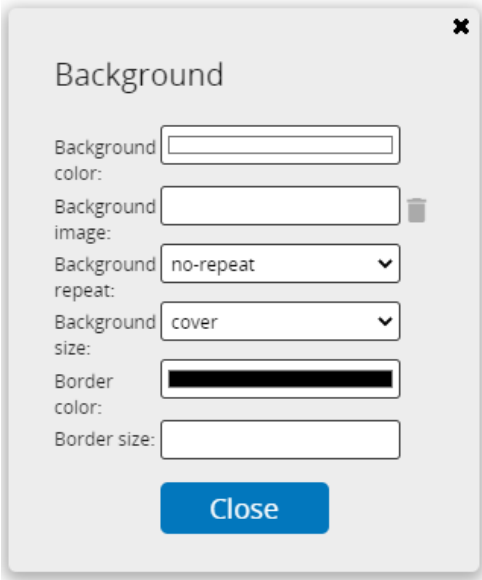


Figure 97: Creating a Background

6. Set the following:

- Click **Preset Resolution** to select the resolution: either a custom resolution, or a pre-defined resolution:

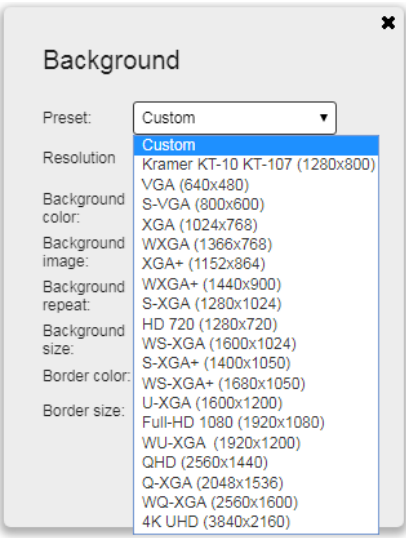


Figure 98: Setting the Resolution

- Click **Background color** to select the background color (RGB, HSL, Hex).

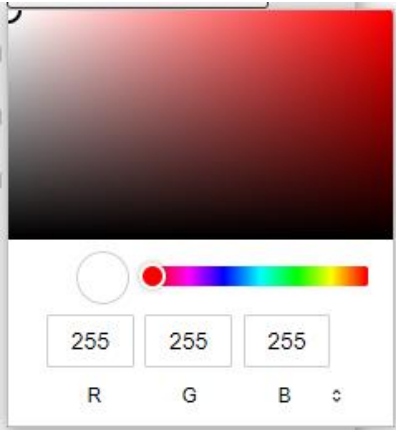


Figure 99: Setting Background Color

- Click **Background image** to insert a background image and also other images that you can use later.

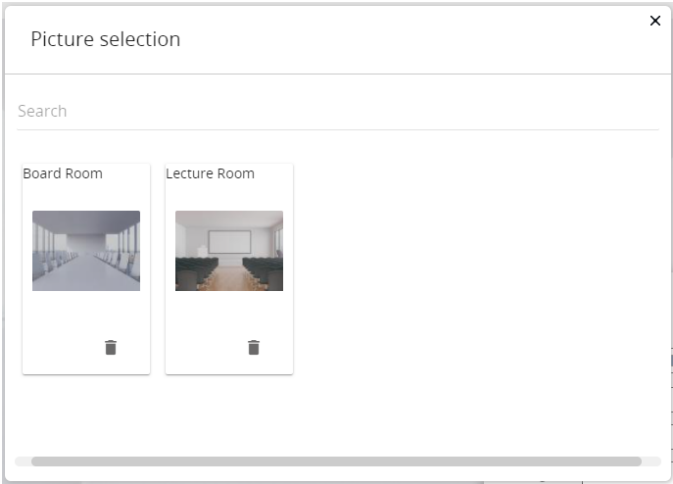


Figure 100: Selecting an Image

- Click **Background repeat** to select **no repeat**, **repeat**, **repeat-x** or **repeat-y**.

Background Repeat Options	Definition
No repeat (or empty)	The background-image will not be repeated.
Repeat	The background image will be repeated both vertically and horizontally.
Repeat-X	The background image will be repeated only horizontally.
Repeat-Y	The background image will be repeated only vertically.

- Click **Background size** to select **Initial**, **contain** or **cover**.

Background Size Options	Definition
Initial (or empty)	Leave the image at its initial size and crop it.
Contain	Scale the image so that both its width and its height can fit inside the content area.
Cover	Scale the background image to be as large as possible so that the background area is completely covered by the background image. Some parts of the background image may not be in view within the background positioning area.

- Click **Border color** and **Border size**.

7. Click **Close** after setting the background.
The room view appears according to the settings:

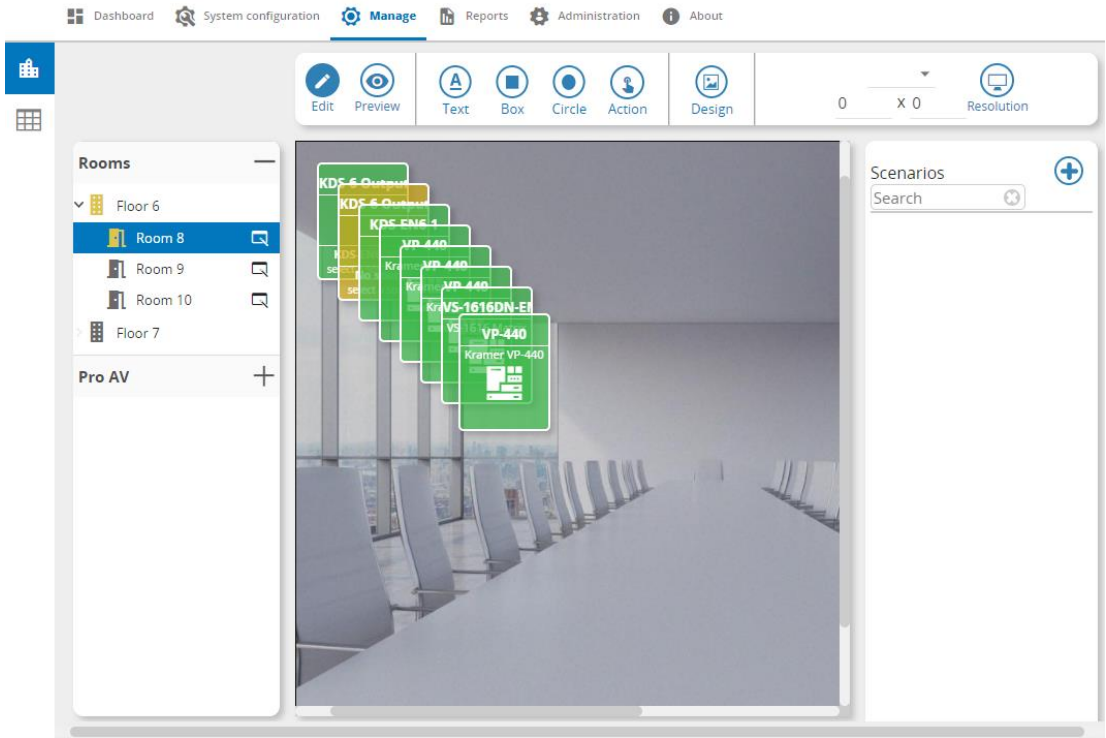


Figure 101: Designed Room View

8. If required, click **+** to open the Pro AV list and add a device to the room.

9. Perform the following actions:

- Move the devices to place them next to their physical location (or any other convenient location).
- Right-click a device to open its location parameters (left and top) and change the numbers to align the devices.
- Hover over a device to see its details and double-click the icon to open its web page.

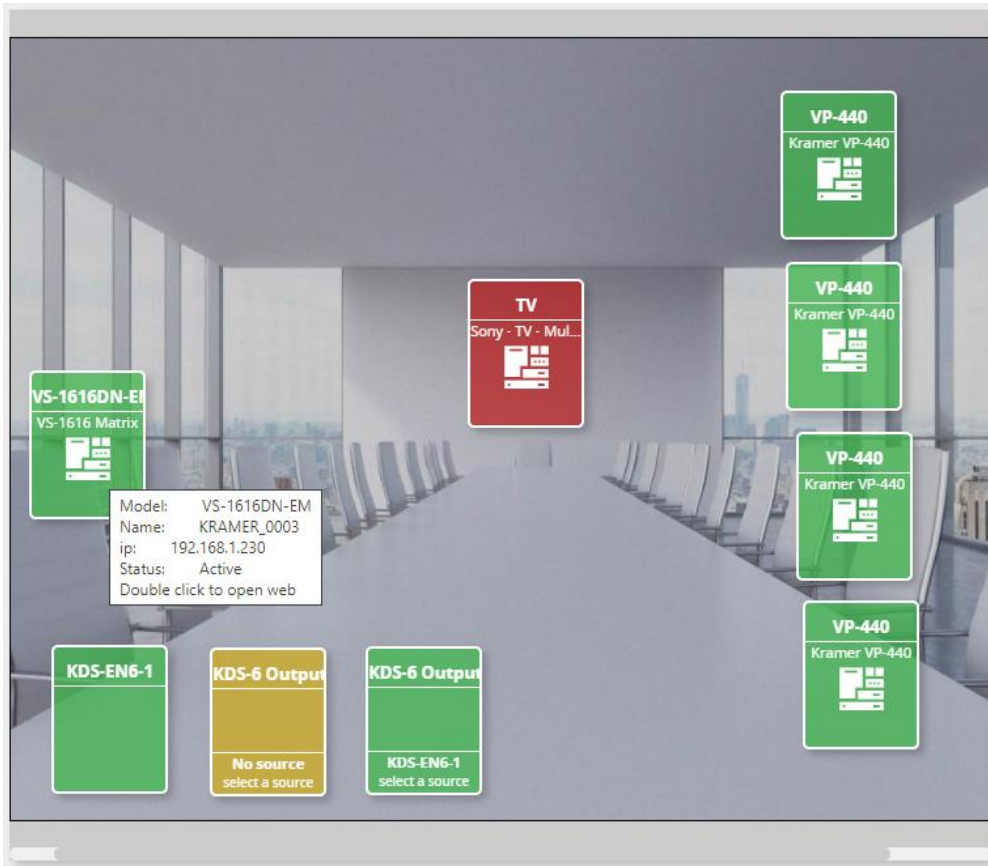



Figure 102: Device Details in Room View


10. If required, add the following elements to the room view:


- Text, see [Adding Text](#) on page [67](#).
- Box and/or Circle, see [Adding a Box or a Circle](#) on page [68](#).
- Action, see [Adding an Action](#) on page [69](#).

11. Click  to view the designed room.

Room view is designed.

Adding Text

Click  to add text to the room view and then right-click the word **Text** that appears in the room view. The following window opens:

- Type the text, select its location (distance from **Left** and **Top**), the font size, **Opacity** (0 is transparent and 100 opaque) the font **Color** and appearance (**Bold**, **Italic** or **Underline**).
 - Click  to remove the text from the room view.
- You can drag-and-drop the text anywhere in the room view.

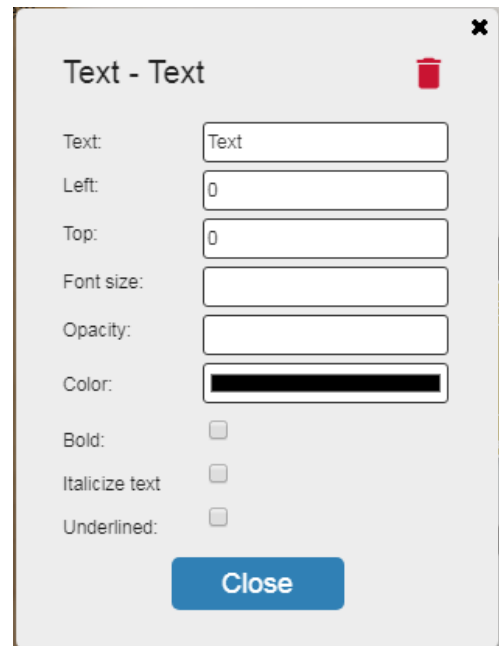





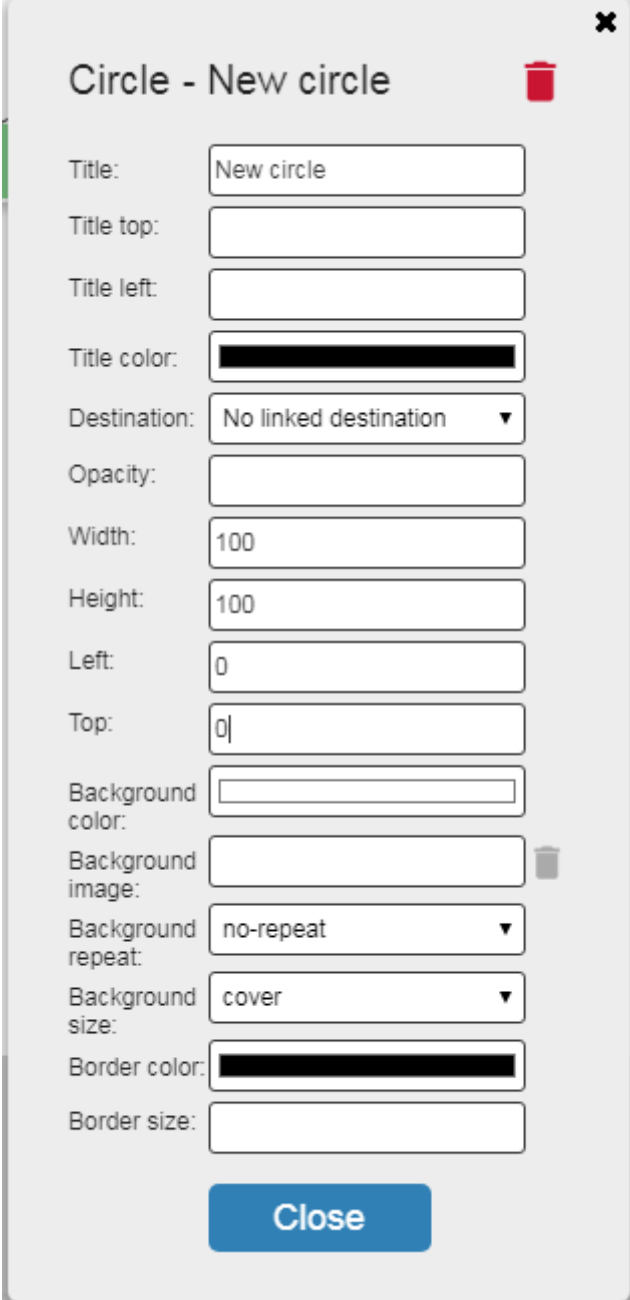
Figure 103: Adding Text

Adding a Box or a Circle

Click  . A box/circle appears in the room view. To edit the circle right-click the box area (this example shows a circle, but the same applies to a box).

- Type the **Title**.
- Set the distance of the title from the **Top** and **Left**.
- Select the **Title color**.
- Link **Destination**.
Set a link in the page to any of the other rooms in the system, letting you go from one room to another by clicking the link in the box.
- Set **Opacity** (0 is transparent and 100 opaque).
- Define the **Width** and the **Height** of the circle.
- Set the location of the circle (distance from **Left** and **Top**).
- Set the circle's Background color or Background image.
- Choose **Background repeat** (no repeat, repeat-x, repeat-y) and **Background size** (initial, contain, cover).
- Choose the **Border color** and type the **Border size**.
- Click  to remove the circle from the room view.

You can drag-and-drop the circle anywhere in the room view.



Circle - New circle

Title:

Title top:

Title left:

Title color:

Destination:

Opacity:

Width:

Height:

Left:

Top:

Background color:

Background image:

Background repeat:

Background size:

Border color:

Border size:

Close

Figure 104: Adding a Circle/Box

Adding an Action

The action button can activate a script (see [Applying Room Automation via Maestro](#) on page 47) and/or a scenario.

To select scenarios for the action button:

1. Click  to open the Scenario selection window:

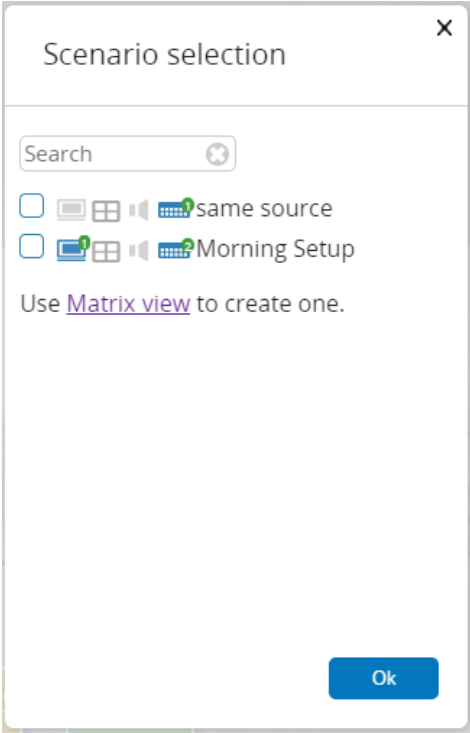


Figure 56: Scenario Selection Window


2. Check the scenarios to add to the room view and click **Ok**. The selected scenarios appear under the scenario list.



Figure 56: Room View Scenario List

You can run the scenarios or add them to an action button.


To add an action button (to run a script and/or a scenario):

1. Click . An Action circle appears in the room view.
2. Right-click the Action button to edit it.

- Select a **Scenario** type from the drop-down list.
- Select a Script type from the drop-down list.

Scenario:	Morning Setup
Maestro script:	select sources

- Type the **Title**.
- Set the distance of the title from the **Top** and **Left**.
- Select the **Title color**.
- Link **Destination**.
Set a link in the page to any of the other rooms in the system, letting you go from one room to another by clicking the link in the box.
- Set **Opacity** (0 is transparent and 100 opaque).
- Define the **Width** and the **Height** of the circle.
- Set the location of the circle (distance from **Left** and **Top**).
- Set the circle's Background color or Background image.
- Choose **Background repeat** (no repeat, repeat-x, repeat-y) and **Background size** (initial, contain, cover).
- Choose the **Border color** and type the **Border size**.
- Type the Border radius.

Click  to remove the circle from the room view. You can drag-and-drop the circle anywhere in the room view.

Script/Scenario - action ✕

Scenario:	<input type="text" value="No scenario"/>
Maestro script:	<input type="text" value="No script"/>
Title:	<input type="text" value="action"/>
Title top:	<input type="text"/>
Title left:	<input type="text"/>
Title color:	<input style="background-color: black; color: black;" type="text"/>
Destination:	<input type="text" value="No linked destination"/>
Opacity:	<input type="text"/>
Width:	<input type="text" value="60"/>
Height:	<input type="text" value="60"/>
Left:	<input type="text" value="308"/>
Top:	<input type="text" value="28"/>
Background color:	<input type="text"/> <input checked="" type="checkbox"/>
Background Image:	<input type="text"/> <input type="checkbox"/>
Background repeat:	<input type="text" value="no-repeat"/>
Background size:	<input type="text" value="cover"/>
Border color:	<input style="background-color: black; color: black;" type="text"/>
Border size:	<input type="text"/>
Border radius:	<input type="text" value="60"/>

Figure 105: Add a Circle/Box

Device Operations in the Room View

Right-click a device to set its exact location in the room view. You can load projects such as virtual panels to room controllers.

To control via a Room Controller (for example, the RC-74DL):

1. Select Manage > **ROOM VIEW**.
2. From the Pro AV area, Drag-&-Drop the **RC-74DL** room controller device.
3. Fill-in the IP address, port type and number.

4. Right-click the device.

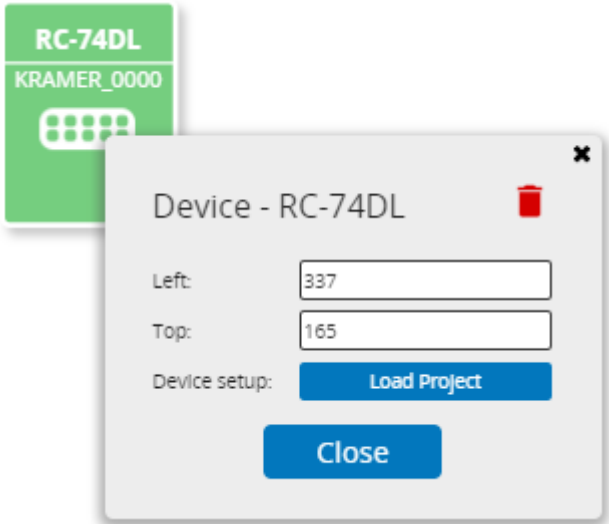



Figure 106: Loading a Room Controller Project

5. Click **Load Project**.

After a few seconds, the list of panels (as configured in the **K-Config 3** project) is uploaded to the device.

 The panels loaded include the physical Master panel, the auxiliary physical device panels and the virtual-panel (id: 11).

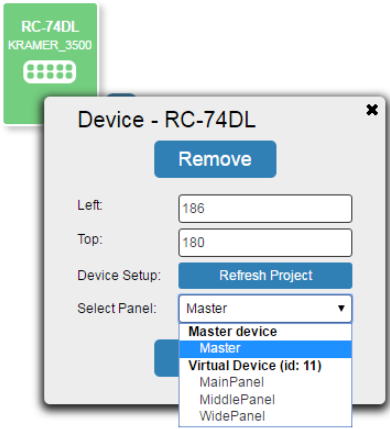


Figure 107: Loading Room Controller Panels

6. Select a panel and close the Device pop-up window.
A control icon appears next to the **RC-74DL** device.

- Click the control icon.
The device control panel appears.



Figure 108: RC-74DL Control Panel

Room controller is controlled.

Selecting a Decoder Source

In the Room view you can preview and select a decoder source.

To select a decoder source:

- Select Manage > **ROOM VIEW**.
- Select an encoder and click **select a source**.

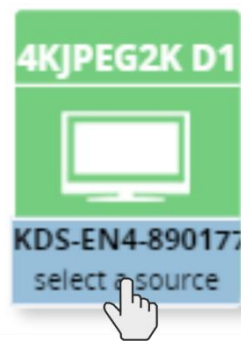


Figure 109: Selecting a Decoder

The following window appears:

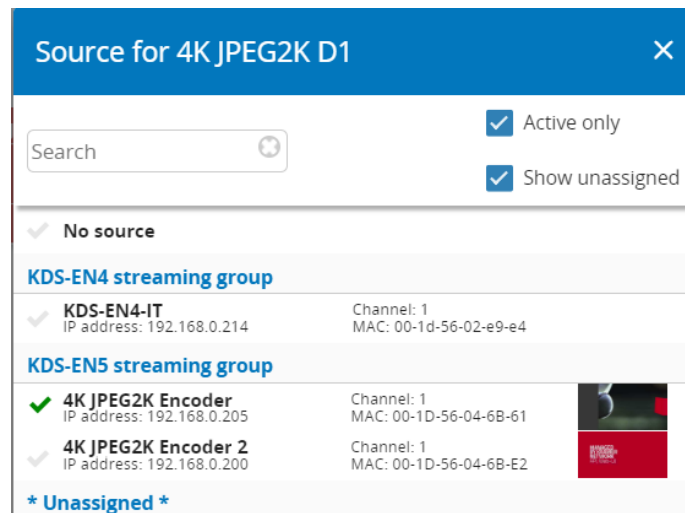


Figure 110: Source List and Preview

3. Check the desired source and close the window.

Decoder source is selected.

Room Schedule

Before you can manage room scheduling, check the room availability and schedule a meeting in a room via ROOM VIEW, you need to:

- Configure your LDAP authentication connection (see [Creating LDAP Connections](#) on page [123](#)).
- Connect the rooms defined in LOCATIONS to a scheduler (see [Meeting-Room Scheduling](#) on page [46](#)).

To schedule a meeting:

1. In the navigation pane, click **Manage > Room view**.
2. Access the room.

The room status icon appears, on the top right side, with the room schedule on its right:



Figure 111: Room Availability and Schedule

3. Click **Room schedule**. The following message appears:

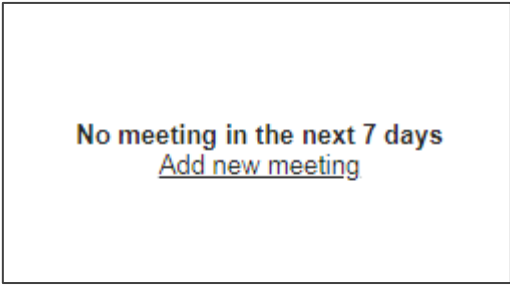


Figure 112: Scheduling Message

4. Click **Add new meeting**. The following window appears:

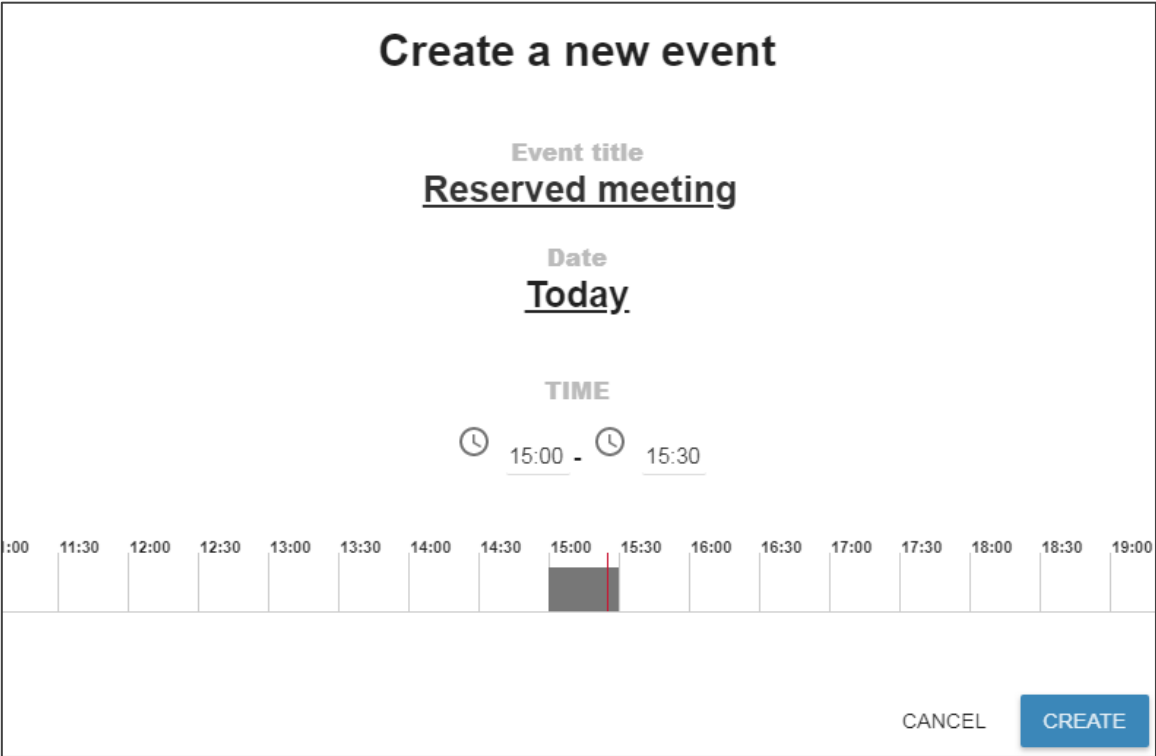


Figure 113: Creating a New Event

5. Type the meeting title, set the date and the time.

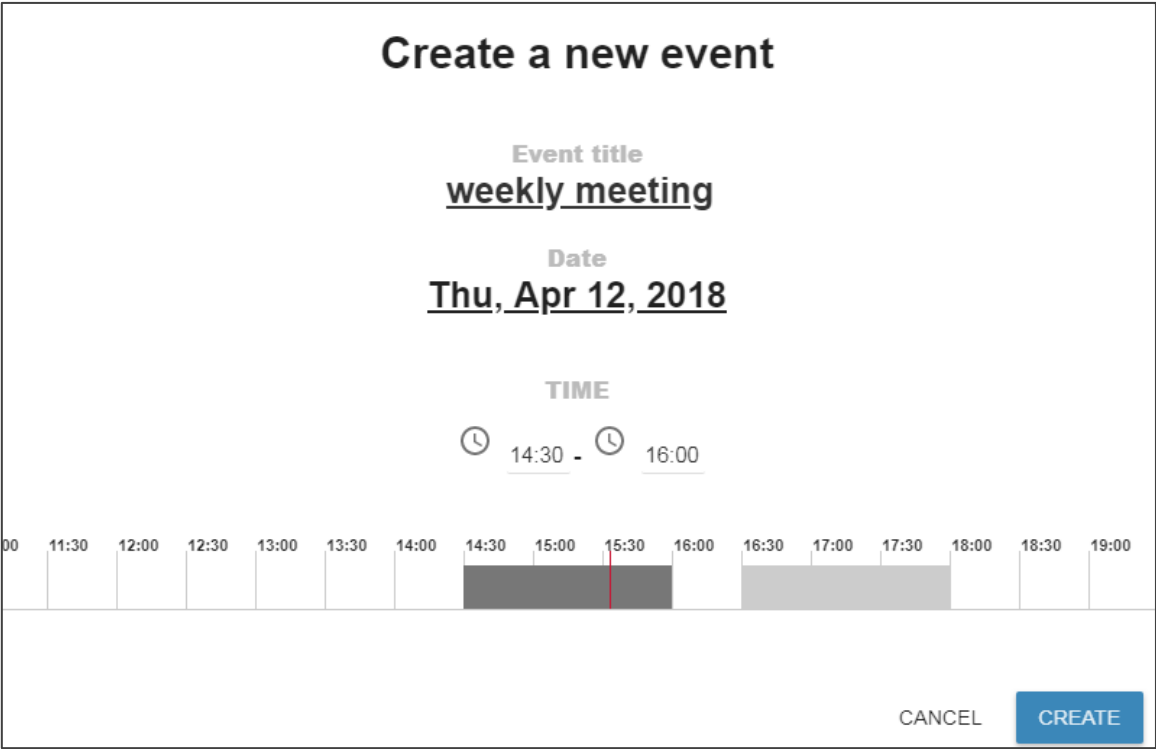


Figure 12: Meeting Details

6. Click **CREATE**. The event is created, and a notification appears.

The room schedule for the current day appears as follows:

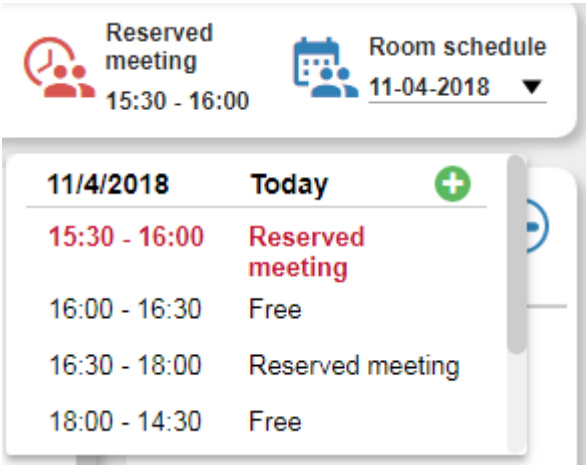


Figure 114: Room Schedule for the Day

Meeting is scheduled.

Managing Pro AV and AV Streaming Devices

Use the **Matrix view** tab to manage PRO AV and AV streaming devices. You can:


- Route **PRO AV** devices or **AV streaming** from the lists in the left-side column and switch the selected device’s audio or video inputs to outputs within the selected matrix, see [Routing Inputs to Outputs](#) on page 76.
- Create scenarios via the **Scenarios** column on the right side, see [Creating and Using Scenarios](#) on page 82.

Routing Inputs to Outputs

You can route PRO AV devices or streaming devices to the outputs in various rooms. In the following example, **VS-88UT** is assigned to a Matrix Room.

To route VS-88UT video signals:

- 1. In the navigation pane click **Manage > Matrix view**.
- 2. Click + to open the Pro AV device list.

 If you cannot find a device in the list, go to the Supported Device list (see [Viewing Supported Devices](#) List on page 114) to check which features are supported by **KRAMER NETWORK** for this device.

- 3. Select **VS-1616 Matrix** from the list.

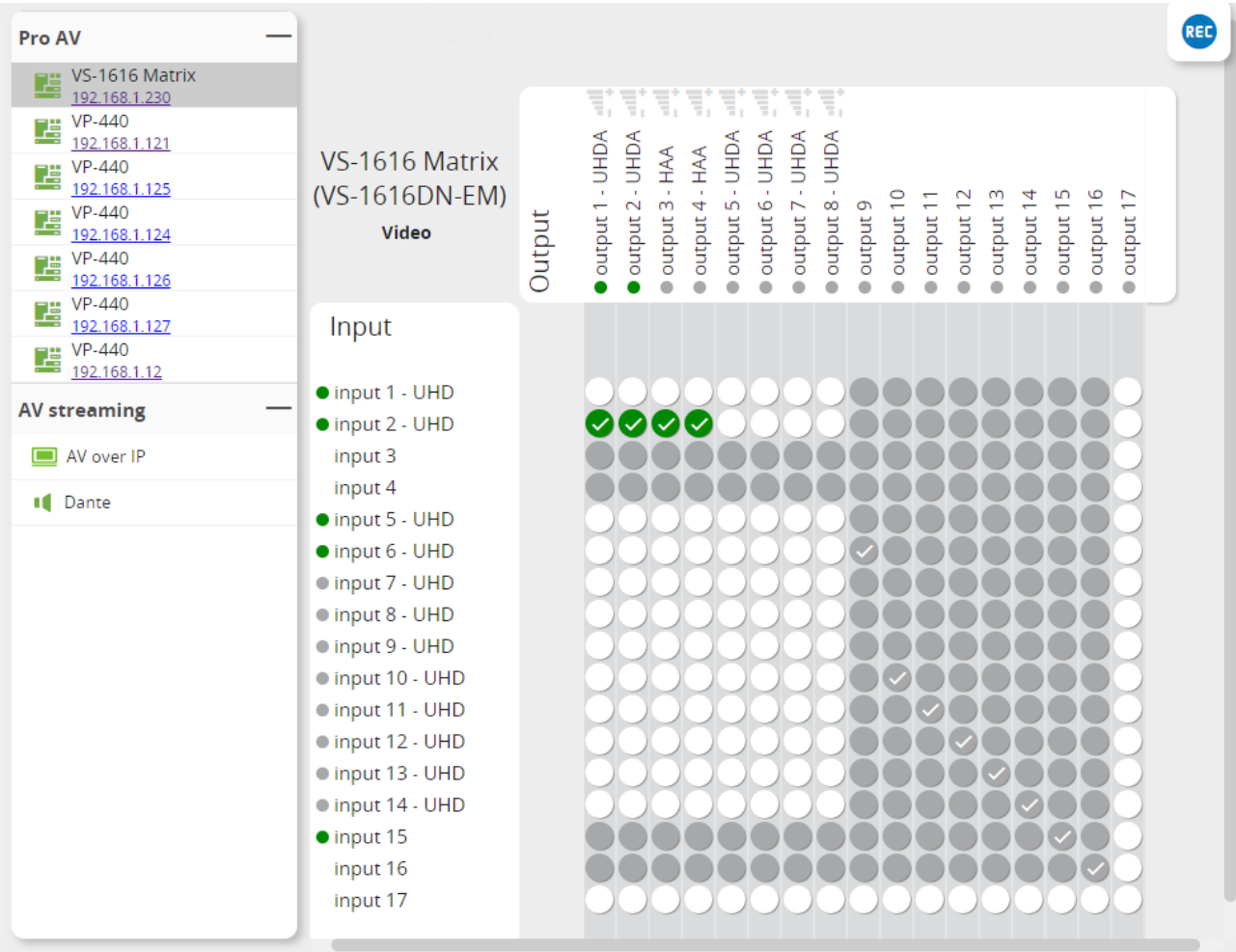








Figure 115: Matrix View – Pro AV Video Routing

4. Click an empty cross-point  to connect an input to an output (for example, in [Figure 115](#) UHD 1 input is routed to UHDA 1 output and other outputs as well).

The following table displays the optional cross-point icons:

Cross-point Icons	Description
	Signal is detected and routed (Pro AV and AV Streaming).
	The device is disconnected from the Network therefore routing is not possible (AV Streaming).
	Warning. Routing is disabled. (AV Streaming).
	Cross-point is not selected (Pro AV and AV Streaming).
	Cross-point is currently not relevant.



Each selected matrix displays its special characteristics. For example, for **VS-88UT** you can set audio-follow-video or breakaway mode per output.

Video signals are routed.

To route VS-88UT audio signals:

1. In the navigation pane, click **Manage > Matrix view**.
2. Click + to open the Pro AV device list.
3. Select **VS-88UT** from the Pro AV list.
4. In the Matrix view, select **Audio**.

- 5. Route the audio inputs to the outputs. Specifically for **VS-88UT**, you can set audio-follow-video or breakaway mode and set the volume for certain inputs and outputs. Other devices may show different characteristics.

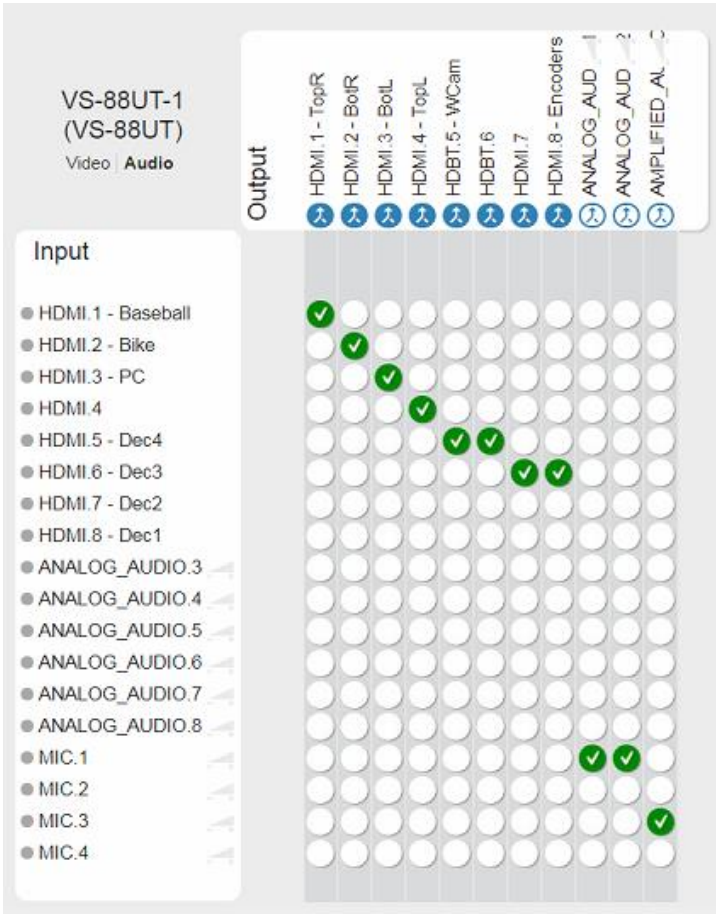


Figure 116: Matrix View – Pro AV Audio Routing

Audio signals are routed.

Routing Streaming Devices

To route streaming devices (for example, Video over IP):

- 1. In the navigation pane, click **Manage > Matrix view**.
- 2. Click + to open the AV streaming list.
- 3. Select **Video over IP** from the Pro AV list.
- 4. Click an empty cross-point to connect an input to an output.

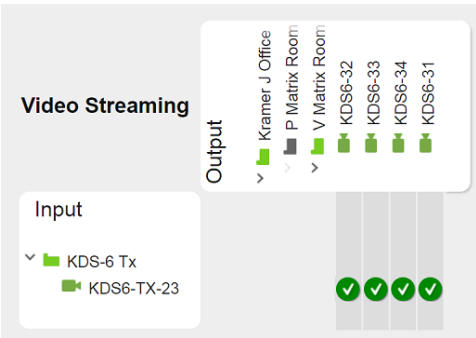


Figure 117: Matrix View – Video Streaming Routing

You can also:

- Hover over a device to view its details and video preview.

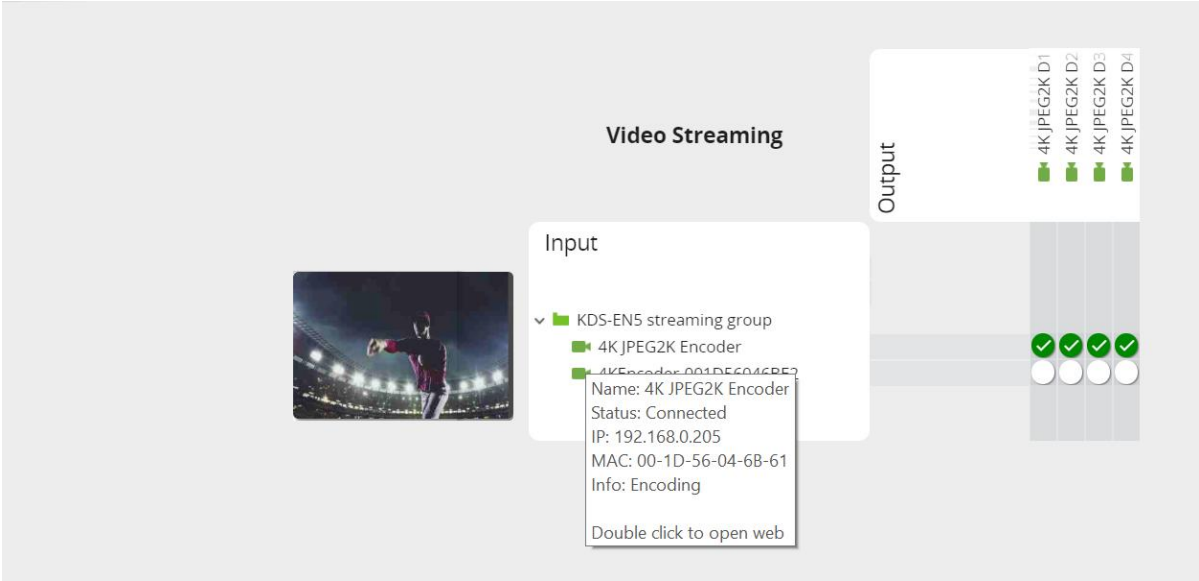


Figure 118: Viewing Device Details and Video Preview

- Click a Video wall (⊞) for a video preview.

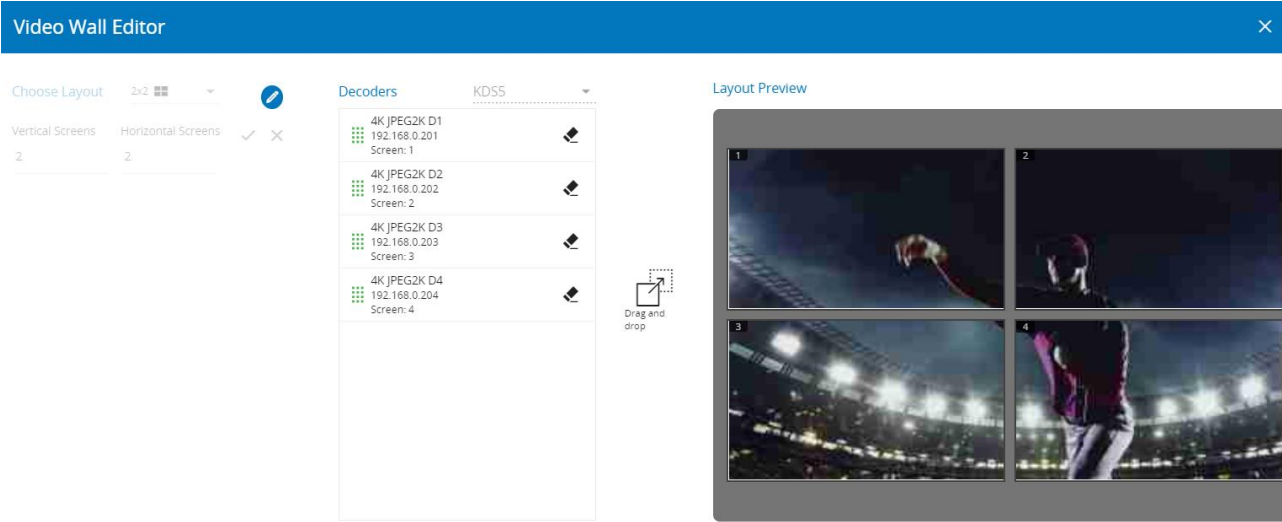


Figure 119: Video Wall Preview

Streaming devices are routed.

Recording Streaming Content via the Encoder

You can use the streamer recording features to record content via **KRAMER NETWORK**.

To record the content running on an encoder:

1. In the navigation pane, click **Manage > MATRIX VIEW**.
2. Click **+** to open the AV streaming list.

3. Select **Video over IP** from the Pro AV list. The content recording icon appears next to a connected **KDS-EN4** device.

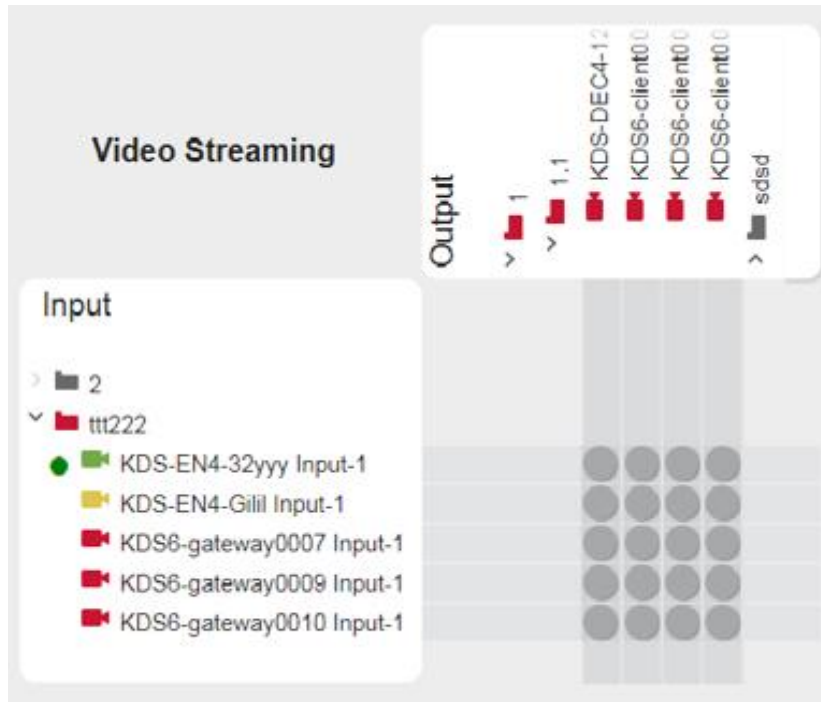






Figure 120: Matrix View – Recording Feature

4. Hover over an indication button to check its status and carry out any required action:

Recording Indication	Description	Action
KDS-EN4	The device is disconnected, and recording is disabled.	N/A
KDS-EN4	The device is not receiving content and recording is disabled.	N/A
KDS-EN4	The device is connected, and recording is enabled.	To start a recording: Click the green indication button.
KDS-EN4	The device is connected and is currently recording (the red indicator flashes).	To stop recording: Click the red indication button. The following message appears: <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>Stop recording</p> <hr/> <p> Do you want to stop recording?</p> <p style="text-align: right;">OK CANCEL</p> </div> Click OK .

Recording Indication	Description	Action
  KDS-EN4	The device is connected, and a recording is scheduled.	To check recording schedule (if required): Click the clock indication button. The following message appears: <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <div style="text-align: right; font-size: small;">x</div> <p style="text-align: center;">This recording is scheduled</p> <hr/> <div style="display: flex; align-items: center;"> ! <div> <p>This Recording is scheduled.</p> <p>Start Recording date 19-04-2018</p> <p>Start Recording time 00:00:00</p> <p>Total duration 01:10:00</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> EDIT CANCEL SCHEDULE RECORD NOW </div> </div> Click x to close window, EDIT to edit schedule details, CANCEL SCHEDULE to cancel the recording, or RECORD NOW to cancel the scheduled recording and start the recording presently.
  KDS-EN4	The device is connected, the clock indication button is flashing, and the device is currently recording, as scheduled.	To check the recording status, if required: Click the flashing indication button. The following message appears: <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <div style="text-align: right; font-size: small;">x</div> <p style="text-align: center;">This schedule is recording</p> <hr/> <div style="display: flex; align-items: center;"> ! <div> <p>This Recording is scheduled.</p> <p>Start Recording date</p> <p>Start Recording time</p> <p>Total duration 01:10:00</p> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> EDIT CANCEL SCHEDULE </div> </div> Click x to close window, click EDIT to edit schedule details, CANCEL SCHEDULE to cancel the recording.

Streaming content is recorded via encoder.

Although you can manage the recording via System configuration (see [Editing Device Parameters](#) on page 24), we recommend that you use the streamer's embedded web pages to configure the recording (For example, the Kramer **KDS-EN4** embedded web page):

Figure 121: Streamer Recording in the Embedded Web Page

Creating and Using Scenarios

Scenarios are routing setups that can be saved and then loaded whenever needed. You can create scenarios in the following methods:

- [Creating a Snapshot Scenario](#) on page 82, to save the current setup as a scenario.
- [Creating a Recorded Scenario](#) on page 84, to create a setup offline (without affecting the current setup).

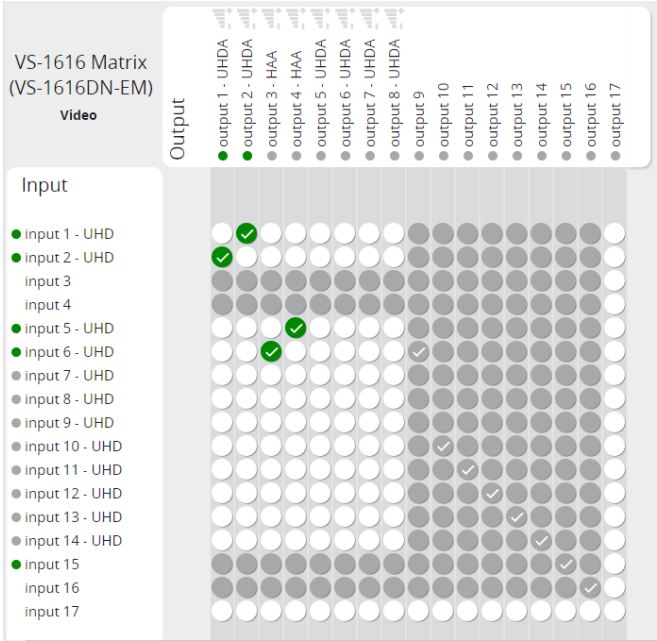
Scenarios can be used as actions in scripts, added to the room view as part of an action button or used in Matrix view to quickly apply a setup.

Creating a Snapshot Scenario

To create a snapshot scenario:

1. In the navigation pane click **Manage > Matrix view**.
2. Click + to open the Pro AV device list.

3. Select **VS-1616 Matrix** (for example) from the Pro AV list.



Current Setup

4. In the **Scenarios** box, enter the Scenario name to the text box under **Save current view snapshot**.

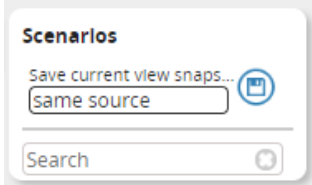



Figure 122: Snapshot Scenario

5. Click . The scenario is saved in the scenario list.

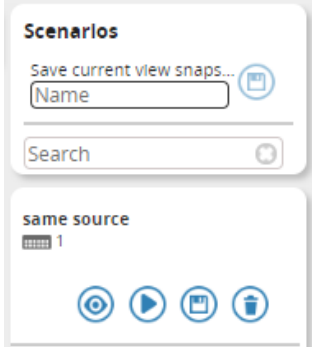






Figure 56: A Scenario Saved to the List

You can click:


-  – to change the scenario details offline (switch to the recording method).
-  – to upload the scenario.
-  – to save updates to the scenario.
-  – to delete the scenario.

A snapshot scenario is created.

Creating a Recorded Scenario

The recorded scenario is created offline and can include multiple Pro AV and streaming devices in one setup. Once saved, an entire configuration can be uploaded with one press of a button.

To record a setup:

- 1. In the navigation pane click **Manage > Matrix view**.
- 2. Click + to open the Pro AV device list and + to open the AV streaming list.
- 3. Click . The matrix turns offline.

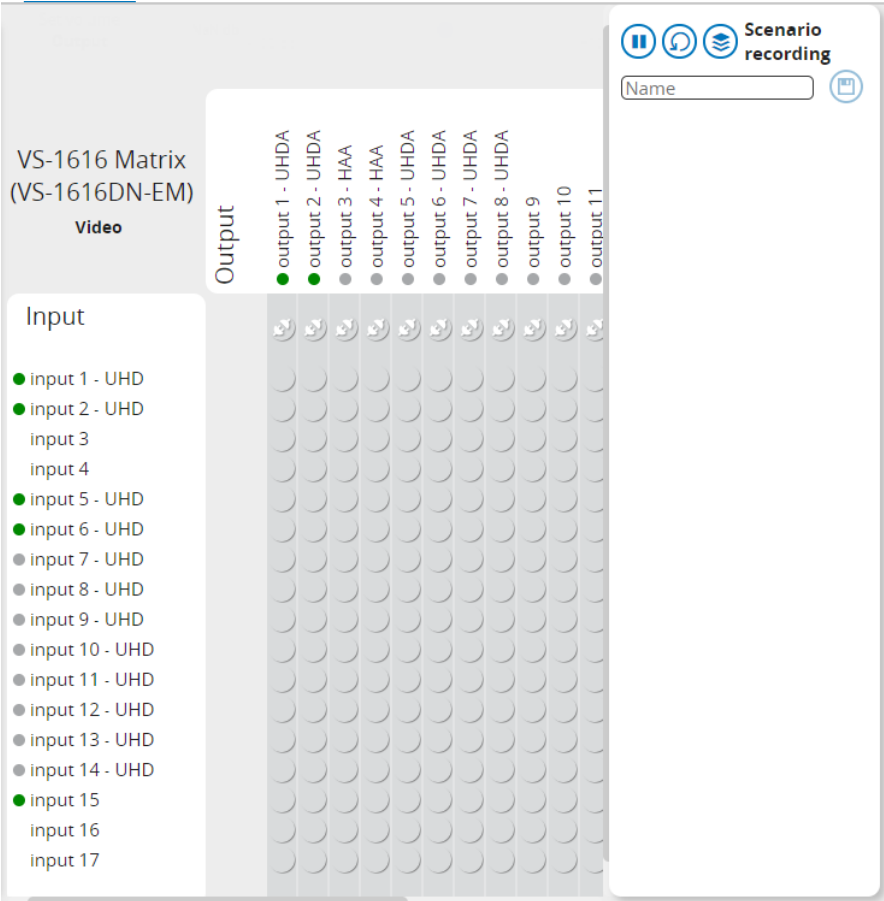


Figure 56: Recording a Scenario

4. Set the device (for example, **VS-88UHD**).

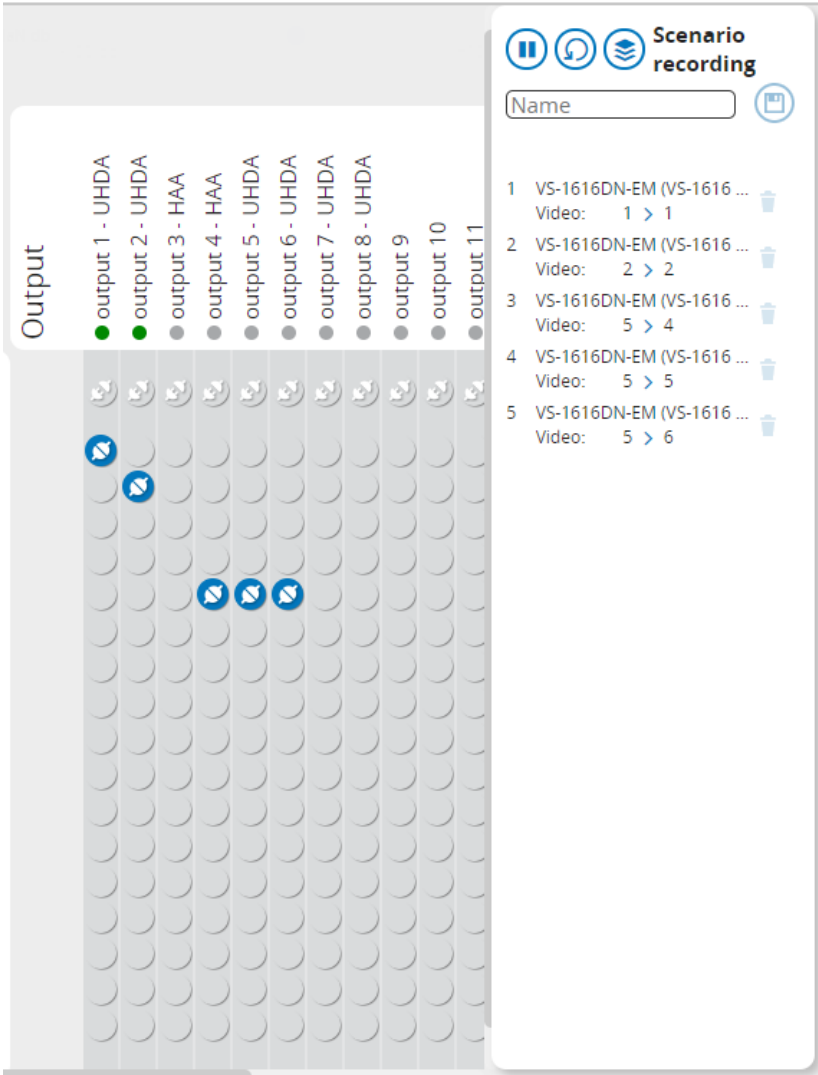


Figure 56: Recording Process (Pro AV)

The matrix shows the setup, and the specific setups are list under Scenario recording on the right.

- 5. Select another Pro AV device from the list and set its configuration and/or open AV streaming devices (for example, under Video over IP) and configure them too.

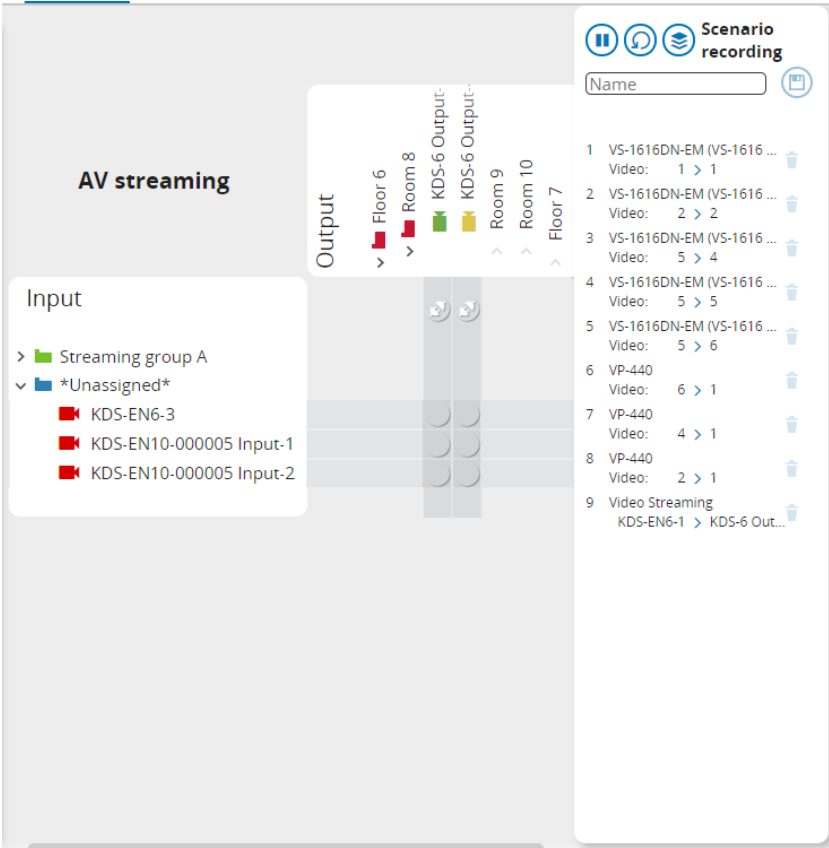


Figure 56: Recording a Scenario (Pro AV and Streaming)

- 6. Once the recording is complete, enter the Scenario name.

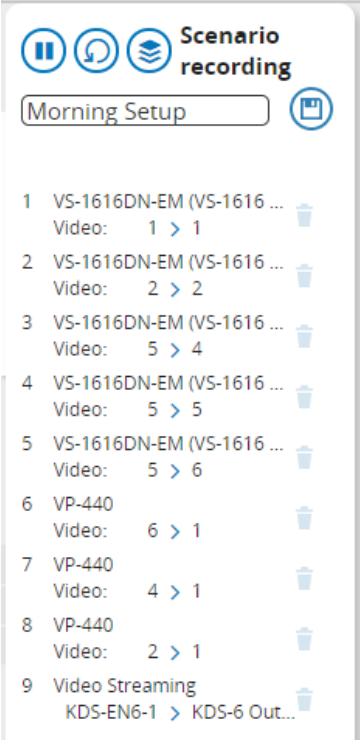



Figure 56: Recorded Scenario List

7. Click . The recorded scenario is saved and added to the scenario list.

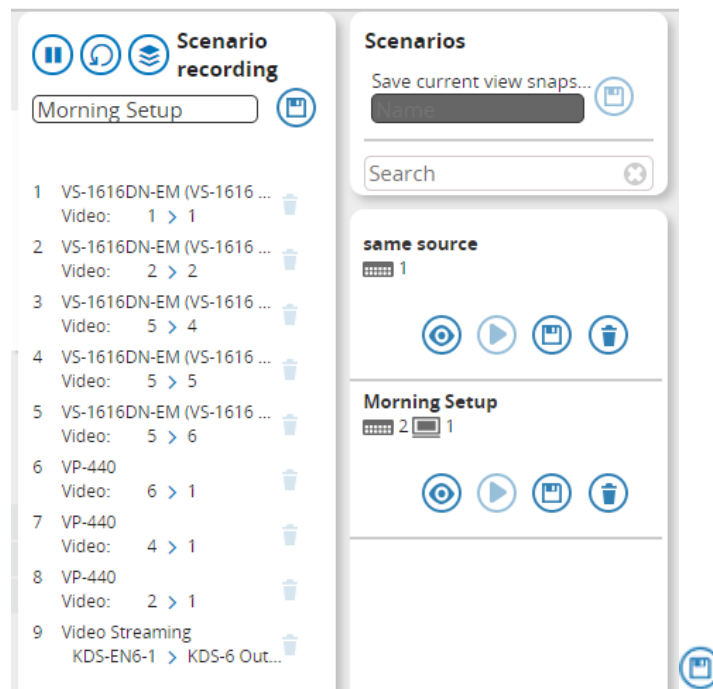






Figure 56: Recording a Scenario

While recording or after saving a scenario, you can click:

-  – to exit recording.
-  – to delete recording.
-  – to remove duplicate lines.
-  – to save/save updates to the scenario.

A recorded scenario is created.

Reports Page

The Reports page includes four types of reports:

To access reports:

1. In the navigation pane click **Reports**.
2. Select the desired report from any of the side tabs.
3. Access any of the following reports:
 - [Device Status Report](#) on page [88](#).
 - [Activity Log Report](#) on page [91](#).
 - [Control Log Report](#) on page [96](#).
 - [Offline Publishing Log Report](#) on page [99](#).

Device Status Report

The Device status report displays the current device (associated to a room or not) status and firmware version. The device status is indicated by the color of the icon: a green IP device icon indicates that it is connected; orange indicates a connection problem; and red indicates a disconnected device.

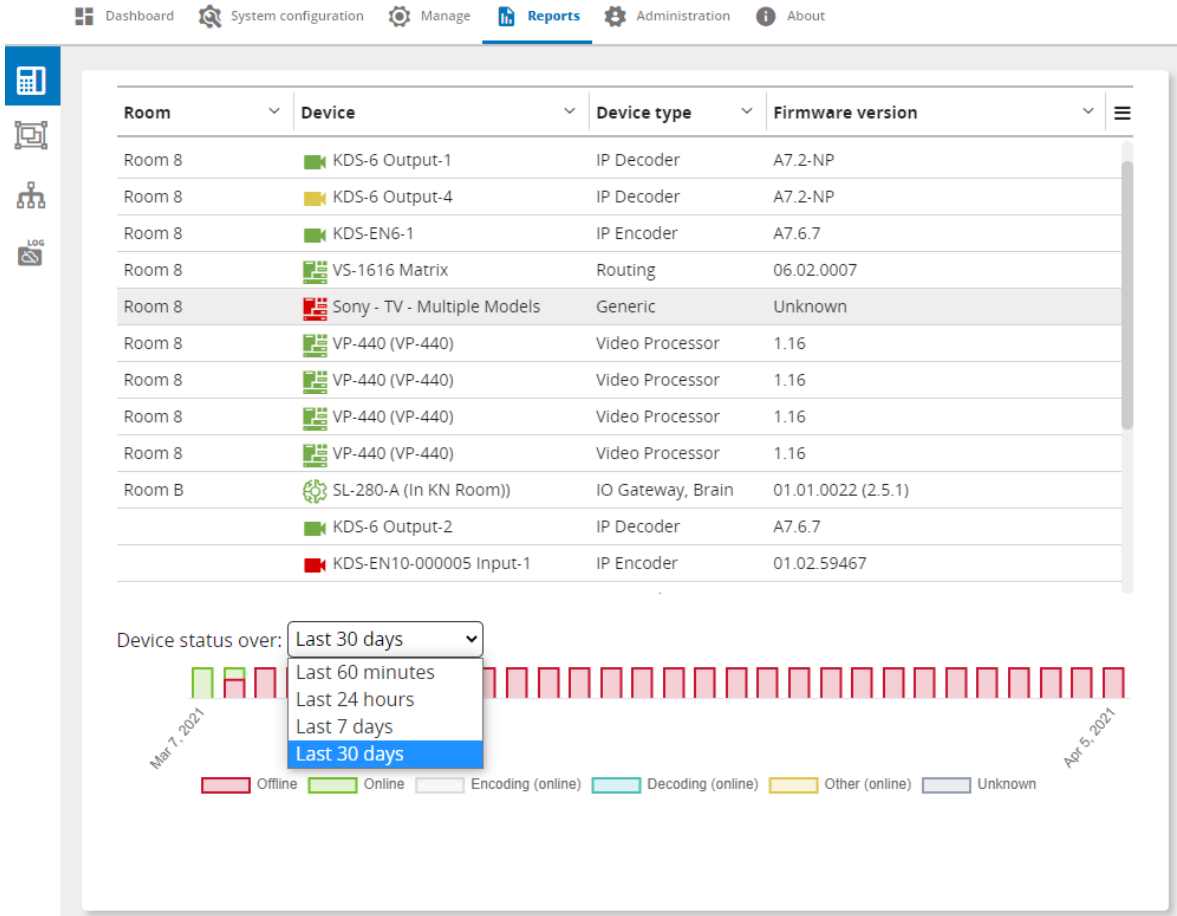


Figure 123: Device Status Report



You can sort each column in ascending or descending order or remove it from the table.

Click ☰ to open the menu:

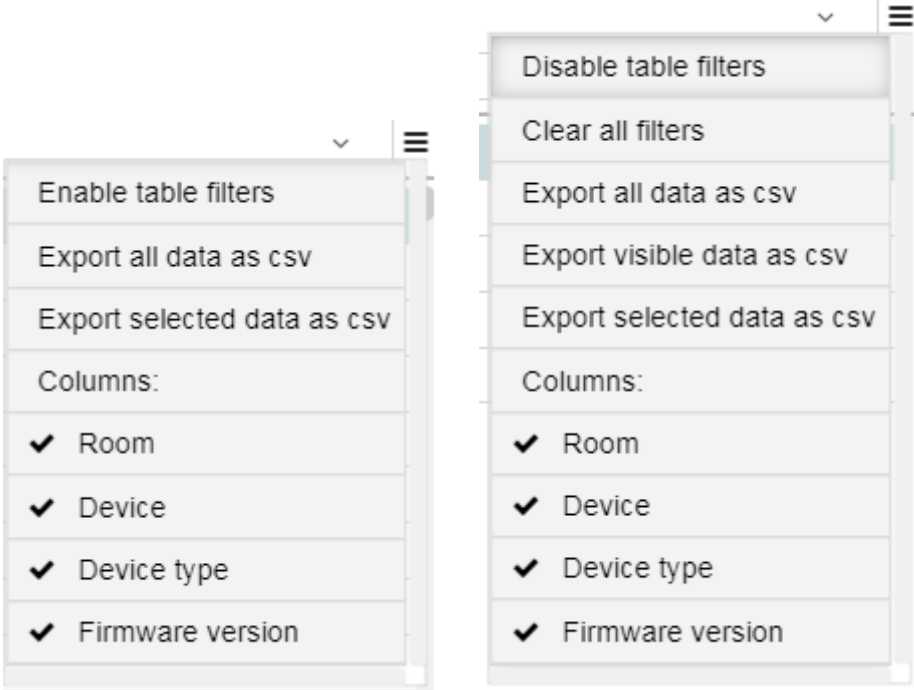


Figure 124: Device Status Menu

You can:

- Enable/disable table filters to filter data.
- Export all data as CSV (Comma Separated Values).
- Export selected data as CSV.
- Export filtered data (visible data).
- Select the columns in the table.

The lower part of the page lets you monitor the activity of a selected device by showing its activity over different periods of time:

- Open the drop-down box to select the **Last 60 minutes** up to **Last 30 days**.
- Hover over a bar to see the statistics:

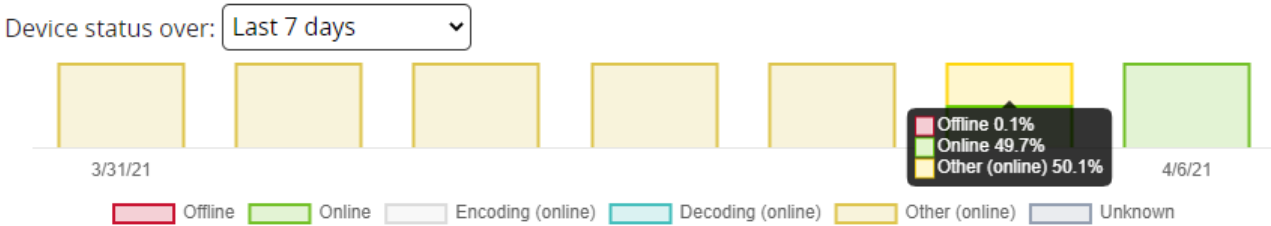


Figure 125: Device Activity – Last 7 Days

- Click a bar to see the status per hour on a certain day.



Figure 126: Device Activity – 1 Day

- Click an hour in a day to see changes per minute:



Figure 127: Device Activity – 1 Hour

Activity Log Report

The Activity log report displays all Kramer Network activities in your network that are not related to the control of the room-assigned devices. For example:

- Adding / removing a user.
- Creating / removing / changing groups.
- Adding / removing devices.
- Device configuration changes (connection, switching).
- Device connectivity.

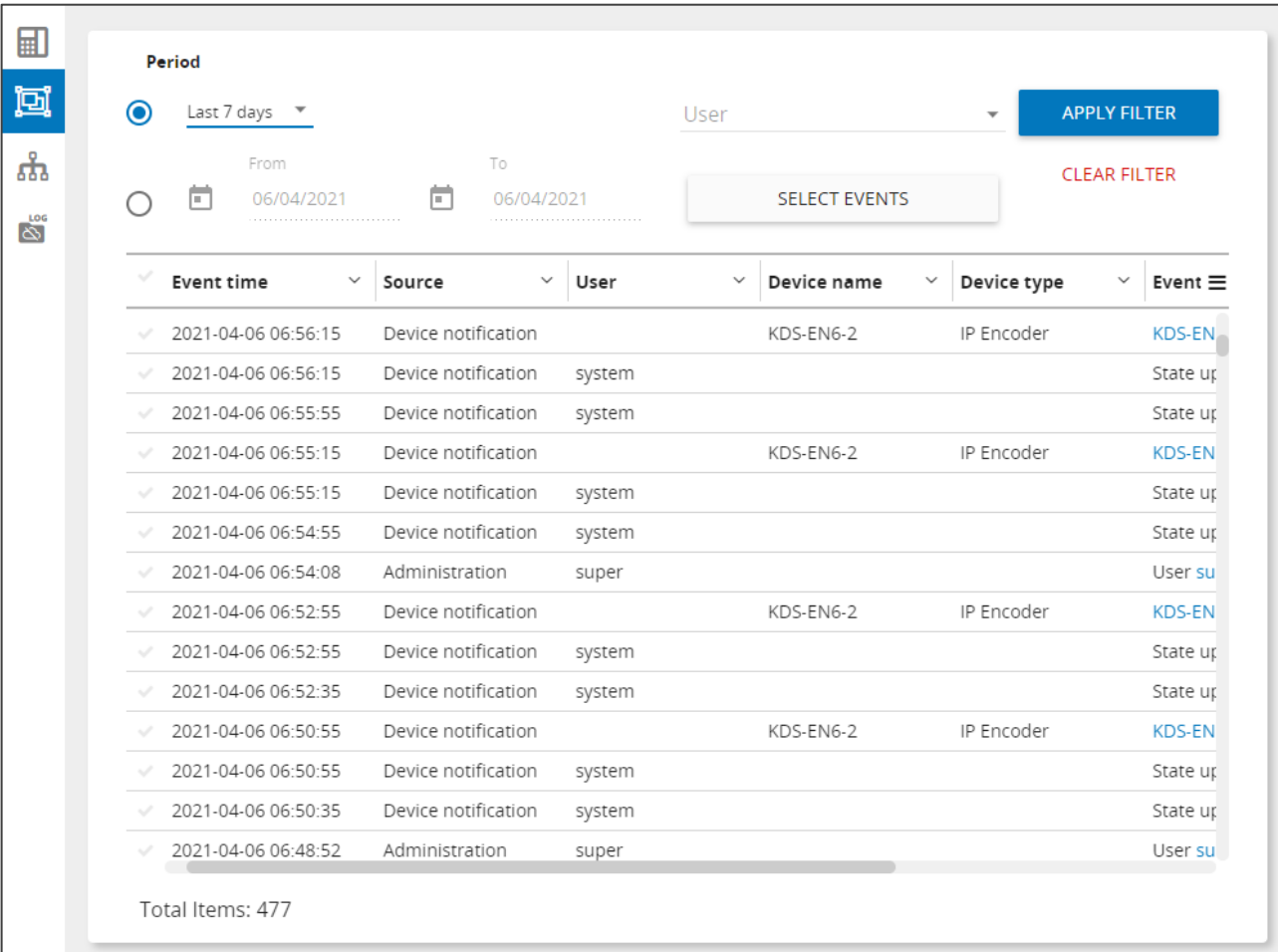


Figure 128: Activity Log Report

You can:

- Check the Back-log radio button to set the back-log period or filter out certain dates to view (Last X days).
By default, the back-log time is set to the last 7 days, but you can set the back-log time from today to last month (last 31 days). Click **APPLY FILTER** to apply and click **CLEAR FILTER** to clear the filter.
- Check the **From/To** button to set a time period (by setting From and To dates). Click **APPLY FILTER** to apply and click **CLEAR FILTER** to clear the filter.

- Open the **User** drop-down box to select a user and then filter logs by user. Click **APPLY FILTER** to apply and click **CLEAR FILTER** to clear the filter.

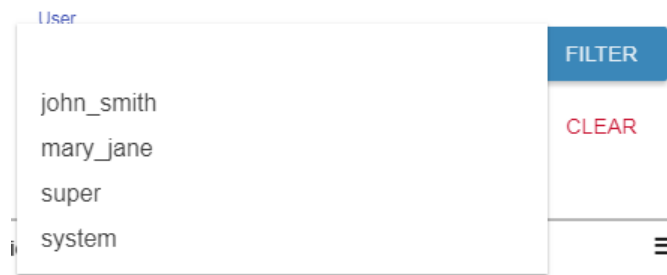


Figure 129: Activity Log Report – Filtering by User

- Click **SELECT EVENTS** button to view selected events (see [SELECT EVENTS Window](#) on page 93).
- Enable/disable table filters to filter data.
- Export all data as CSV (Comma Separated Values).
- Select the columns in the table.

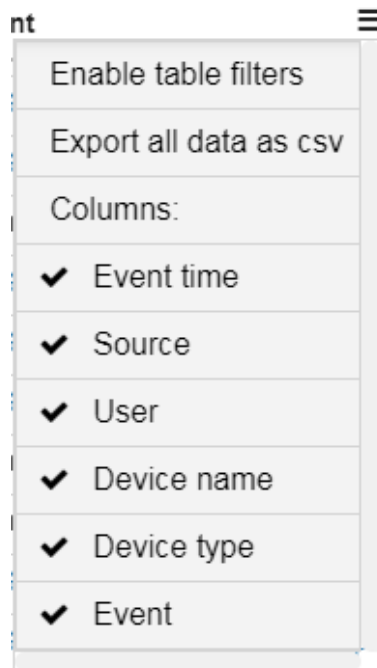


Figure 130: Activity Log Report – Selecting Columns

SELECT EVENTS Window

You can filter out events from the event list via the **SELECT EVENT** window.

To use the SELECT EVENTS window:

- 1. In the navigation pane, click **Reports** and then select the **ACTIVITY LOG** tab.
- 2. Click **SELECT EVENTS**.

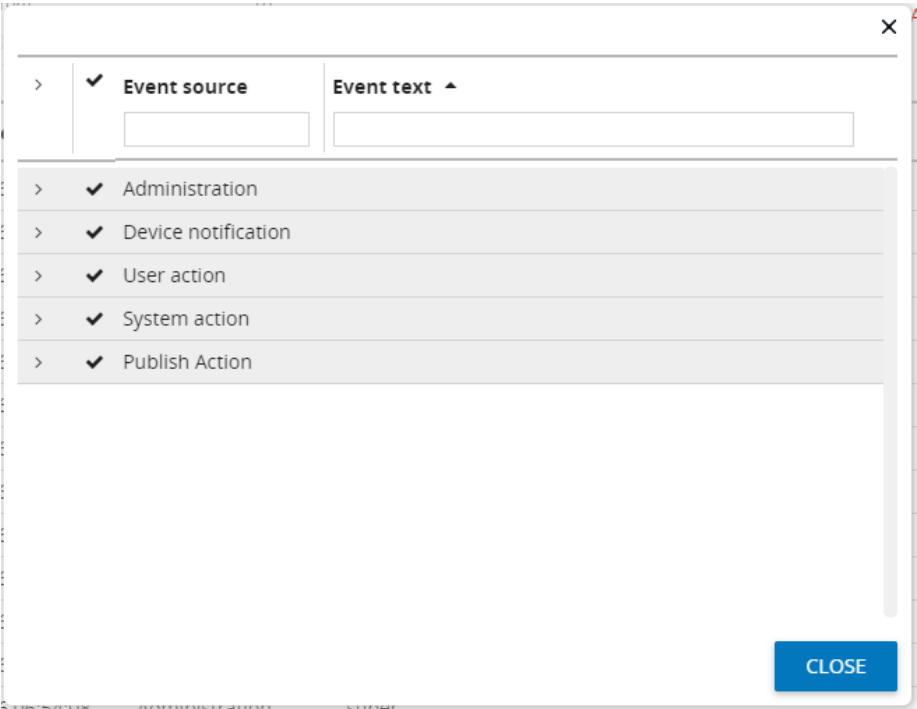


Figure 131: Activity Log Report – Selecting Events

- 3. Perform any of the following:
 - Uncheck next to an Event category (**Administration**, **Device notification**, **User action** **System action** and **Publish action**) to filter out a specific category.

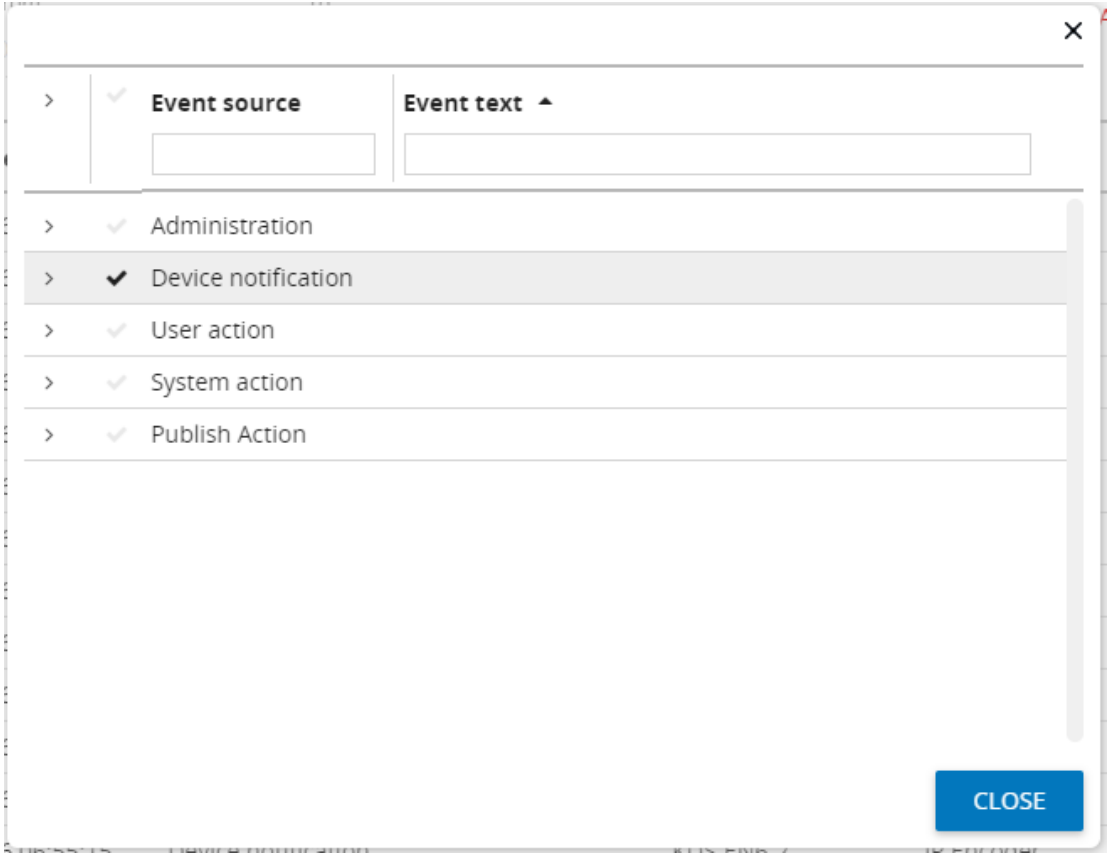


Figure 132: Filtering Out an Event Category

- Click > next to an Event category to expand it and select specific events.

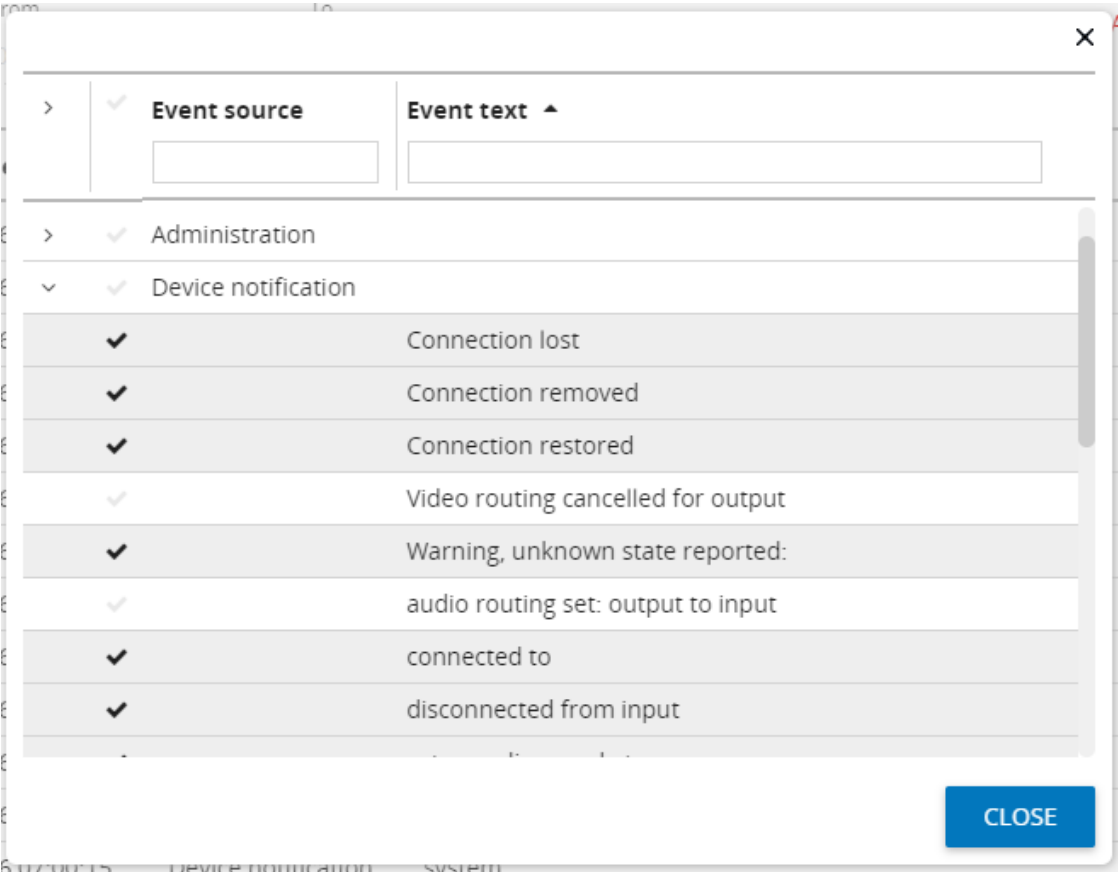


Figure 133: Expanding an Event

- Use the **Event source** and **Event text** text boxes to filter specific events.



Figure 134: Filtering Specific Events

4. Click **CLOSE** to exit the window.
5. Click **FILTER** to apply the selection of events on the list and click **CLEAR** to clear the filter.

Control Log Report

The Control log presents all the events related to the **KRAMER NETWORK** control module which includes **K-Config** virtual control and monitoring of devices. Once a room is assigned with Virtual Master configuration, the logging begins.

1. In the navigation pane click **Reports** and then select the **Control log** side tab.

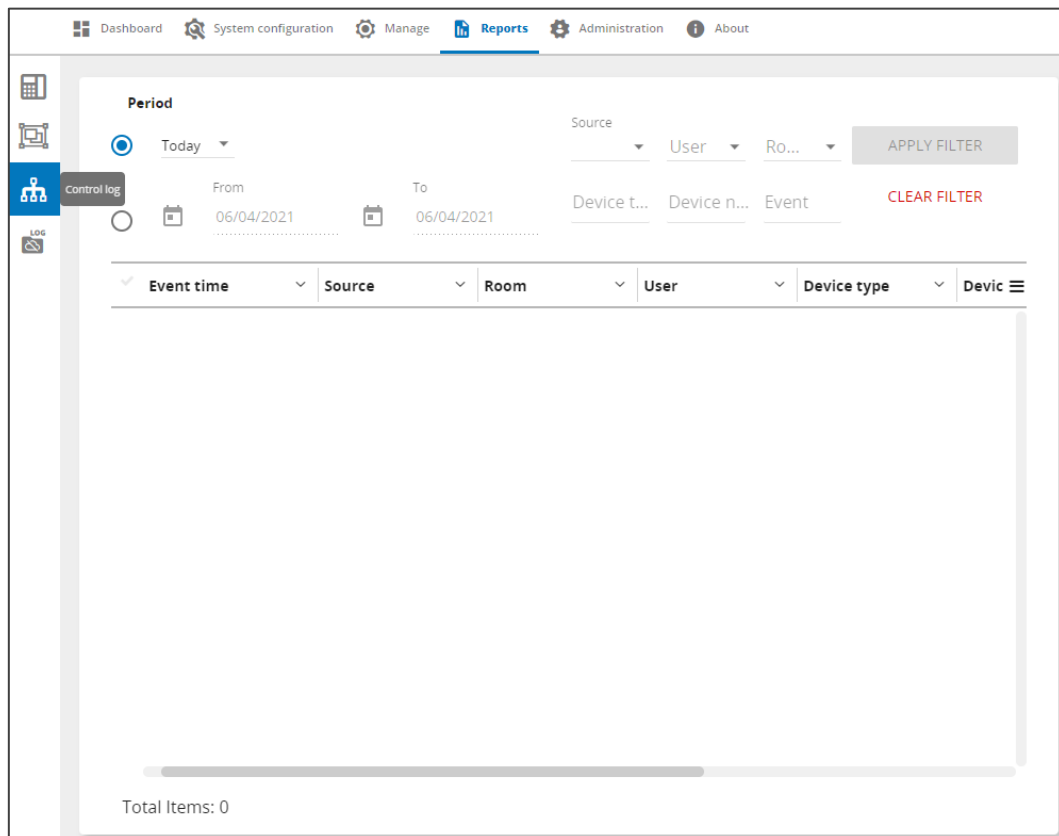


Figure 135: Control Log Report

2. Set the LOG Period:


- Check the **Back-log** radio button to set the back-log time period or filter out certain dates to view.
By default, the back-log time is set to 7 days, but you can set the back-log time from today to last month (last 31 days). Click **APPLY FILTER** to apply and click **CLEAR FILTER** to clear the filter.
- Check the **From/To** button below Back-log to set a time period (by setting **From** and **To** dates). Click **APPLY FILTER** to apply and click **CLEAR FILTER** to clear the filter.

Filtering Control Events

You can filter Control log data by using one or a combination of filters that are available (Source, User, Room, Device type, Device name and/or Event) and then click APPLY FILTER to apply or click CLEAR FILTER to clear the filter.

The system reports:

- Panel button activity.
- The resulting events of this activity.
- Devices connectivity status.

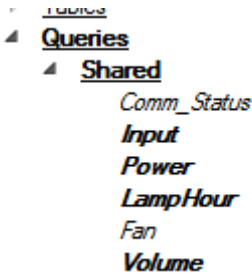
 **IMPORTANT:** If Comm_Status query has been defined by the **K-Config** device driver, **KRAMER NETWORK** checks the status of the device every 30 seconds when connected, and 3 times when disconnected, every 5 seconds. **KRAMER NETWORK** then sends the connect/disconnect message to the control log (the query is built into the krnt project).

Detecting Alerts

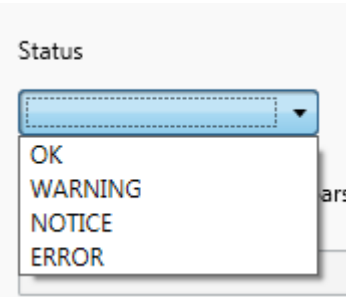
The system can detect alert messages coming from Room-controller devices (such as the RC-74DL) and add them to the control log.

Alerts from virtual room controller projects are recorded in the control log, using the following logic:

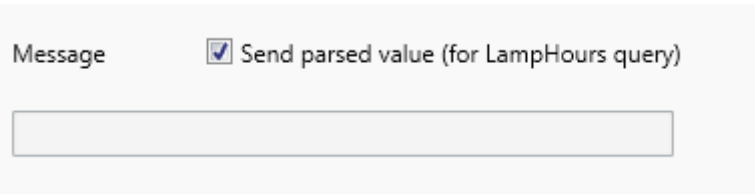
An alert of a known query (shared):



Status Value is:

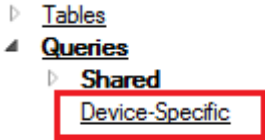


Status Message is:



The DisplayName is the name of the query name but in a readable format, for example: "LampHour" = Lamp Hour.

An alert of an unknown query (device-specific)



- StatusValue – the same as above
- StatusMessage – the same as above
- DisplayName: the name of the query name

An alert that does not belong to a query

- StatusValue – the same as above
- StatusMessage – the same as above
- DisplayName: “Alert”

You can set the back log for which you wish to view the log, or filter out certain dates to view. You can set the source, user, room, device type, device Name and/or an event to view.

At this point, StatusValue will not be present, only the StatusMessage. For example: in the **Event** column will display: “Lamp Hour: 33.33% [1000/3000 h]”.

The following is an example of a Control Log page:

Event Time	Source	Room	Device Type	Device Name	Event
2016-11-16 15:11:37	Room controller	KDS-3	Projector	NEC: NP-PA500U	Power: Is stand by
2016-11-16 15:09:31	Room controller	KDS-3	Projector	NEC: NP-PA500U	Power: Is power on!!!
2016-11-16 15:06:56	Room controller	KDS-3	Projector	NEC: NP-PA500U	Power: Is stand by
2016-11-16 15:06:55	Room controller	KDS-3	Projector	NEC: NP-PA500U	Lamp Hour: 25.52% [49/192 h]
2016-11-16 15:05:47	Room controller	KDS-3	Generic	PJLink: PJLink	Lamp Hour: 25.80% [903/3500 h]
2016-11-16 15:05:23	Room controller	KDS-3	Generic	PJLink: PJLink	Lamp Hour: 0.00% [0/3500 h]
2016-11-16 15:04:45	Room controller	KDS-3	Generic	PJLink: PJLink	Lamp Hour: 25.80% [903/3500 h]
2016-11-16 15:04:21	Room controller	KDS-3	Generic	PJLink: PJLink	Lamp Hour: 0.00% [0/3500 h]

Figure 136: Control Log Example

Click the menu to:

- Enable/disable table filters to filter data.
- Export all data as CSV (Comma Separated Values).
- Export filtered data (visible data) as CSV.
- Select the columns in the table.

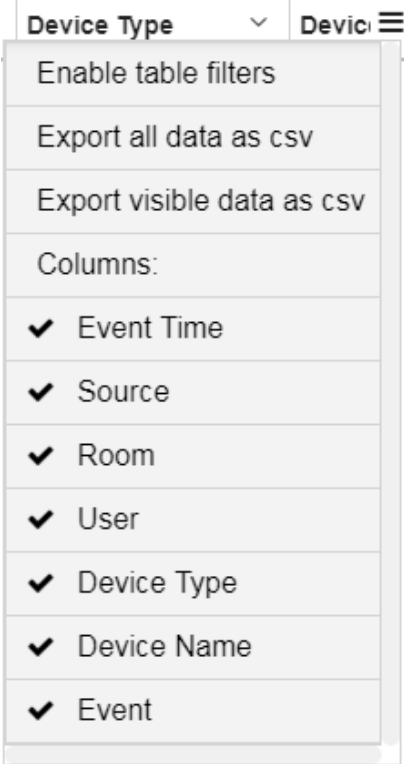


Figure 137: Control Log Menu

Offline Publishing Log Report

The Offline Publishing Log Report displays all Kramer Network activities in your network that are related to the Offline Publishing of the Brain files. The functionality is identical to the [Activity Log Report](#) on page 91.

Administration Page

The Administration Page manages system USERS, DEVCIES and other system settings.

Users Management

Three types of users can control and operate the system with different access permissions:

Users	Permissions	Menu Access																											
Super	System Administrator/Network Manager: <ul style="list-style-type: none"> • Defines the topology. • Manages devices. • Adds users and credentials (Admin/Users). • Grants Admin access to groups. • Creates Maestro room automation. • Grants scheduling permissions. • Creates the Room View, scenarios the video and the audio matrix. • Manages rights to room view, matrix view, configuring of locations, all logs and device statuses. 	All the menu items.																											
Admin	The Site Administrator (once granted access by the Super) can: <ul style="list-style-type: none"> • Access/manage the Room View. • Access/manage the matrix, routing of physical/virtual matrix. • Access/export control/activity logs. • View/Manage devices. • Generate and manage scenarios. • Add users. • Grant users (operators) access to room scenarios. • Manage device firmware. 	Permissions <table border="0"> <tr> <td><input checked="" type="checkbox"/></td> <td>Room view</td> <td>Access Room View Menu</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Matrix view</td> <td>Access Matrix View Menu</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Kramer Control</td> <td>Operational control of KC devices</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Config Locations</td> <td>Access to locations in configure system</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Control log</td> <td>View log of control events</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Activity log</td> <td>View log of system activity</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Device status</td> <td>View status of all devices</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Users</td> <td>Manage users and permissions</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Firmware</td> <td>Manage devices firmware</td> </tr> </table>	<input checked="" type="checkbox"/>	Room view	Access Room View Menu	<input checked="" type="checkbox"/>	Matrix view	Access Matrix View Menu	<input checked="" type="checkbox"/>	Kramer Control	Operational control of KC devices	<input checked="" type="checkbox"/>	Config Locations	Access to locations in configure system	<input checked="" type="checkbox"/>	Control log	View log of control events	<input checked="" type="checkbox"/>	Activity log	View log of system activity	<input checked="" type="checkbox"/>	Device status	View status of all devices	<input checked="" type="checkbox"/>	Users	Manage users and permissions	<input checked="" type="checkbox"/>	Firmware	Manage devices firmware
<input checked="" type="checkbox"/>	Room view	Access Room View Menu																											
<input checked="" type="checkbox"/>	Matrix view	Access Matrix View Menu																											
<input checked="" type="checkbox"/>	Kramer Control	Operational control of KC devices																											
<input checked="" type="checkbox"/>	Config Locations	Access to locations in configure system																											
<input checked="" type="checkbox"/>	Control log	View log of control events																											
<input checked="" type="checkbox"/>	Activity log	View log of system activity																											
<input checked="" type="checkbox"/>	Device status	View status of all devices																											
<input checked="" type="checkbox"/>	Users	Manage users and permissions																											
<input checked="" type="checkbox"/>	Firmware	Manage devices firmware																											
User	The Operator (once granted access by the Super/Administrator) can: <ul style="list-style-type: none"> • Log in to granted rooms. • Manage room view. • Use the scenarios. • Manage room routing (physical or virtual). 	Permissions <table border="0"> <tr> <td><input checked="" type="checkbox"/></td> <td>Room view</td> <td>Access Room View Menu</td> </tr> </table>	<input checked="" type="checkbox"/>	Room view	Access Room View Menu																								
<input checked="" type="checkbox"/>	Room view	Access Room View Menu																											

The super user has full access to all of **KRAMER NETWORK** features.

The Super can give permissions and set access limits separately for each Admin that is added to the system and similarly, the Admin can set permissions for different operators.

For example, the Super can be the company IT manager, the Admins can be managers of different offices and the operators can manage a room or a set of rooms.

Creating Users

To create a user:

1. In the navigation pane click **Administration > Users**.
2. Click **+** to add a user:

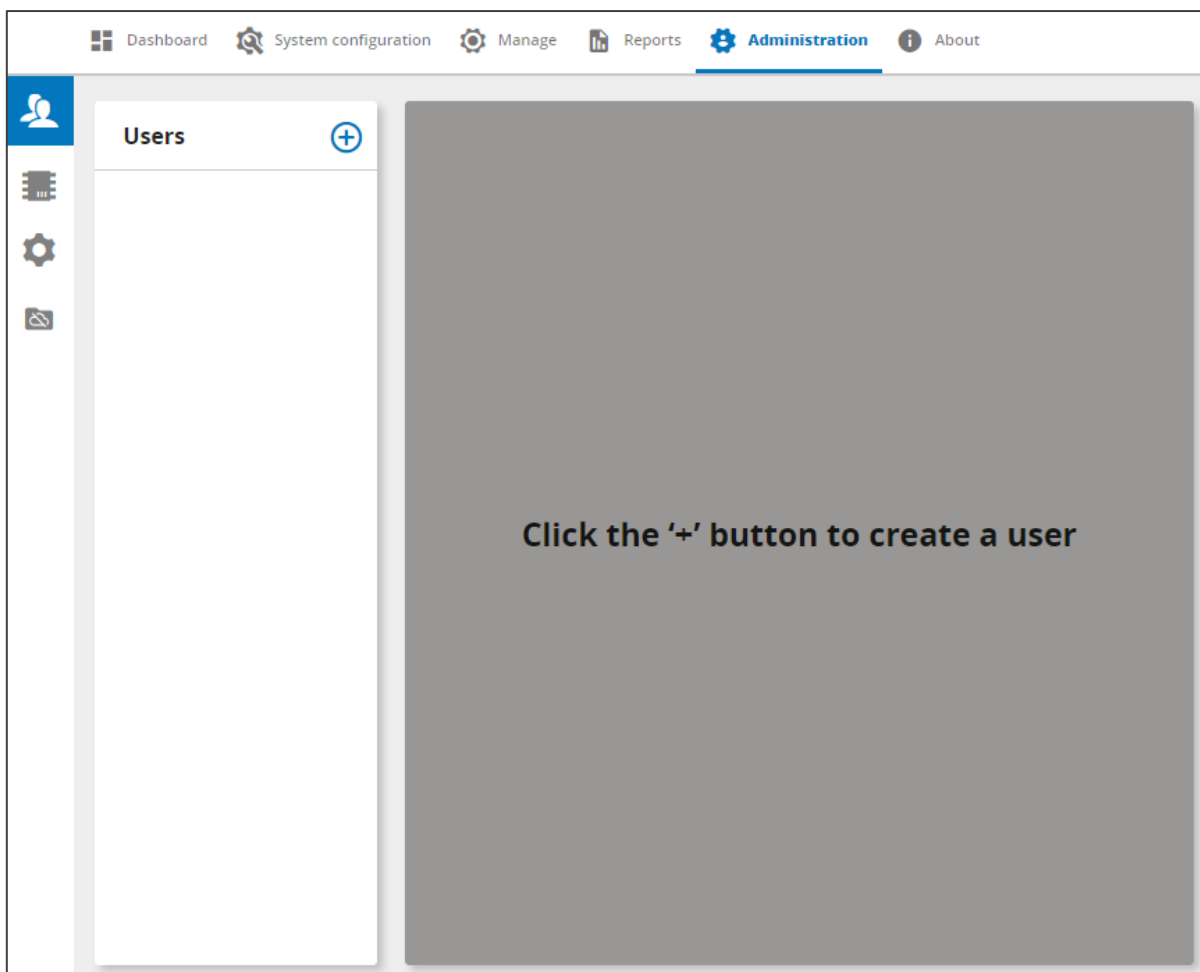


Figure 138: The Permissions Page

Click . The following window appears:

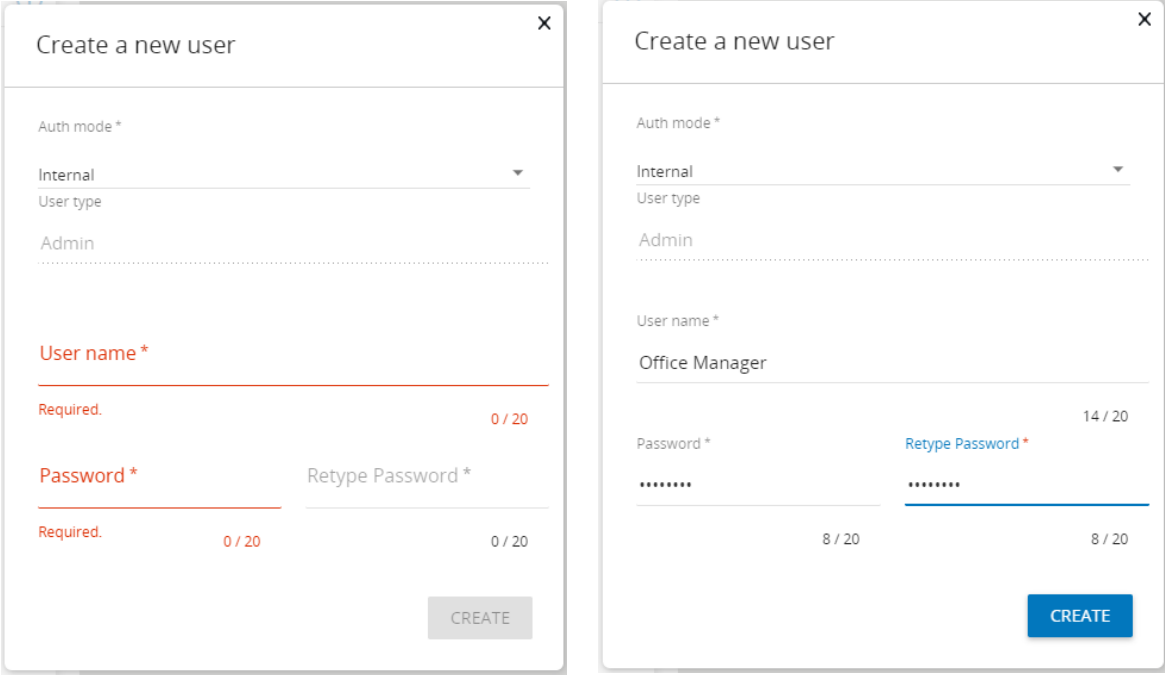


Figure 139: Creating a New Admin User



Auth mode can be set to internal or to LDAP (as defined in [Creating LDAP Connections](#) on page [123](#)).

Click **CREATE**. The new Admin is added to the list:

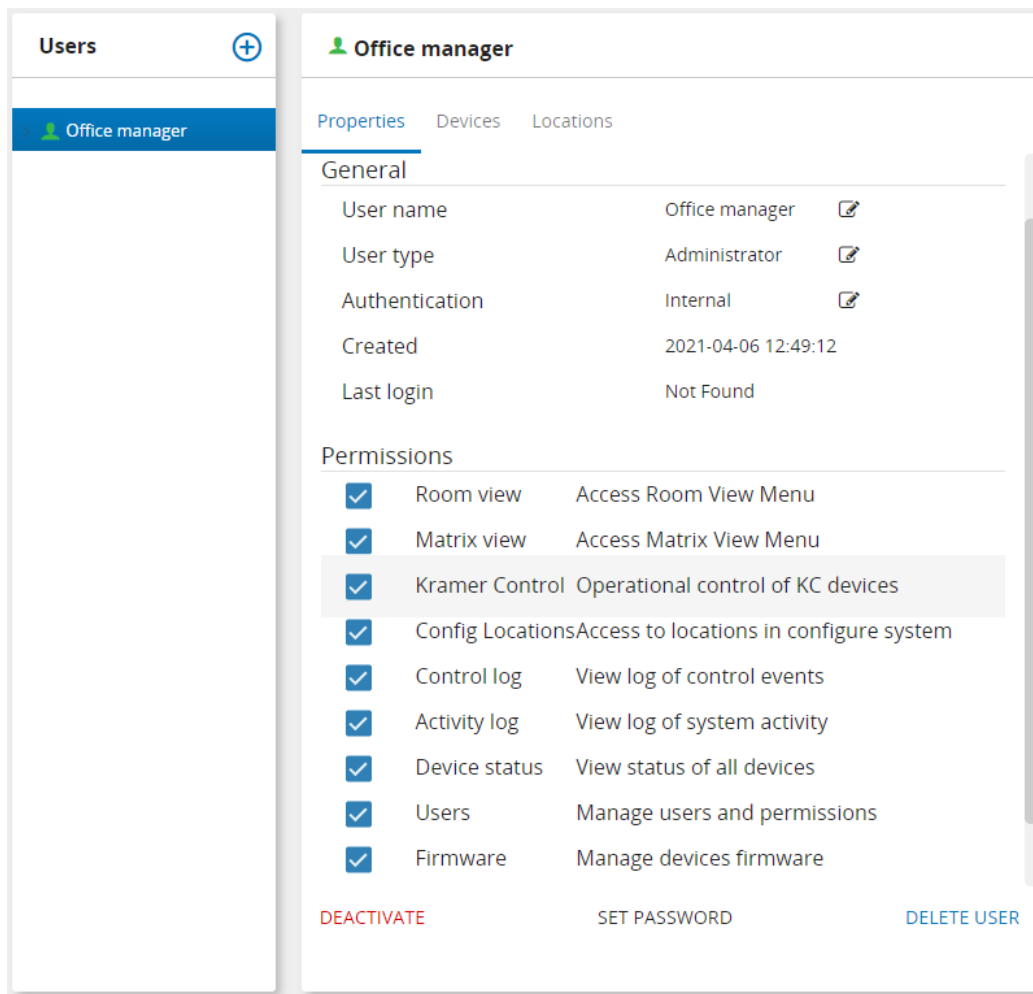



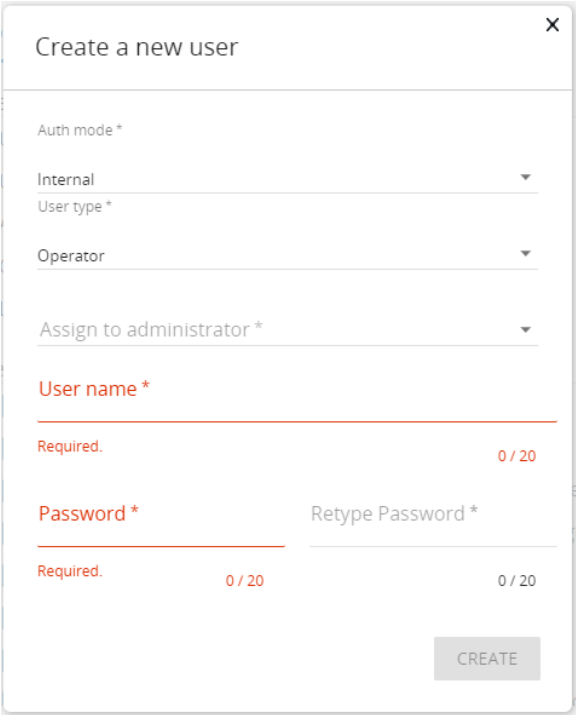
Figure 140: Adding an Administrator User

The new user properties tab appears, indicating the date the user was created and the last login.

You can:

- Click to change the user's name, type and authentication.
- **DEACTIVATE** or **DELETE USER**.
- Click **RESET PASSWORD** to reset the user's password.
- Check to change the User's permission to access Room View and Matrix View menus, view the different logs and devices status, access the locations and manage users and permissions.

To create additional Admins and Operators, click :



The screenshot shows a 'Create a new user' dialog box with the following fields and values:


- Auth mode*: Internal
- User type*: Operator
- Assign to administrator*: (empty)
- User name*: 0 / 20
- Password*: 0 / 20
- Retype Password*: 0 / 20

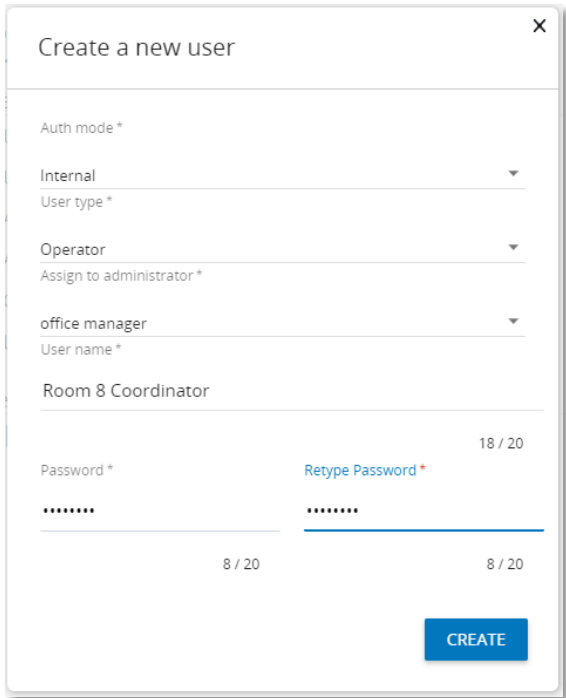
A 'CREATE' button is located at the bottom right of the dialog.

Figure 141: Creating a New User or Admin (by the Super)

You can create additional administrators and operators.

To create a new operator:

- 1. In the Administration page, select an administrator.
- 2. Click .
- 3. Type the User name and select the new user’s administrator.



The screenshot shows the 'Create a new user' dialog box with the following fields and values:

- Auth mode*: Internal
- User type*: Operator
- Assign to administrator*: office manager
- User name*: Room 8 Coordinator
- Password*: 8 / 20
- Retype Password*: 8 / 20

A blue 'CREATE' button is located at the bottom right of the dialog.

Figure 142: Creating a New Operator (by the Super or Admin)

4. Click **CREATE**.

The new Operator is now under the administrator:

The screenshot shows a user management interface. On the left, a sidebar titled 'Users' contains a tree view with 'Office manager' expanded and 'Room 8 coordinator' selected. The main area displays the 'Room 8 coordinator' user profile. At the top, there are tabs for 'Properties', 'Devices', and 'Locations', with 'Properties' selected. Below the tabs is a 'General' section with the following details:

User name	Room 8 coordinator	
User type	User	
Authentication	Internal	
Administrator	Office manager	
Created	2021-04-06 13:13:26	
Last login	Not Found	

Below the 'General' section is a 'Permissions' section with a table:

<input checked="" type="checkbox"/>	Room view	Access Room View Menu
-------------------------------------	-----------	-----------------------

At the bottom of the user profile, there are three buttons: 'DEACTIVATE' (in red), 'SET PASSWORD', and 'DELETE USER' (in blue).

Figure 143: New User Properties

The new user properties tab appears, indicating the date the user was created and the last login.

You can:

- Click to change the operator's name, user type and authentication.
- Deactivate or delete the operator.
- Change the operator's password.
- Change the operator's permission to access Room View.



The Admin can create his/her own operators but cannot create other Admins.

Assigning Devices

To assign devices to an administrator or a user:

1. In the Administration page, select an administrator or user.
2. Click the **DEVICES** tab. The following window appears:

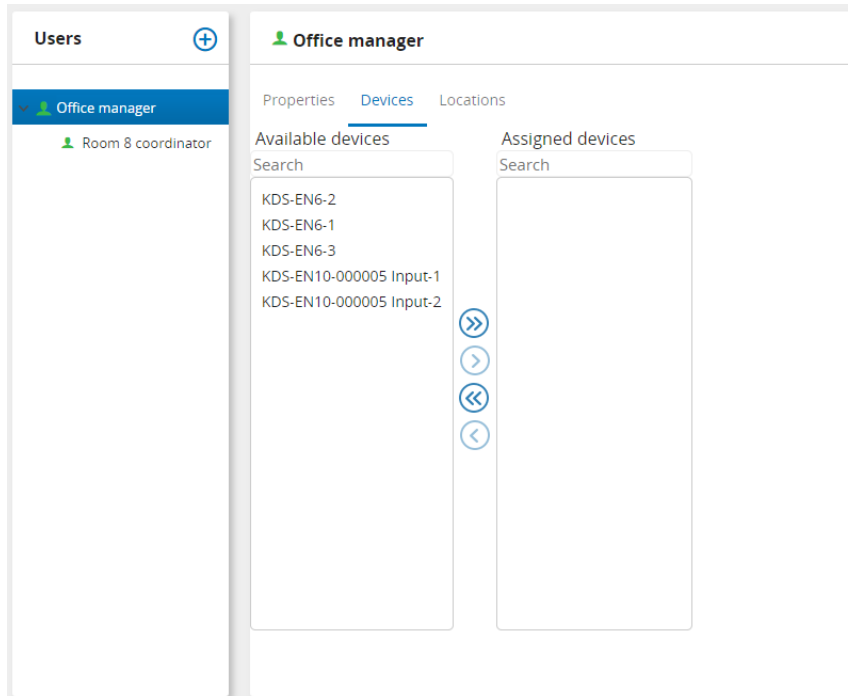


Figure 144: Assigning Devices to a User

3. Use the arrows to assign all the devices or selectable devices from the Available devices list.

Assigning Locations

To assign locations to an administrator or a user:

1. In the Administration page, select an administrator or user.
2. Click the **Locations** tab. The following window appears:

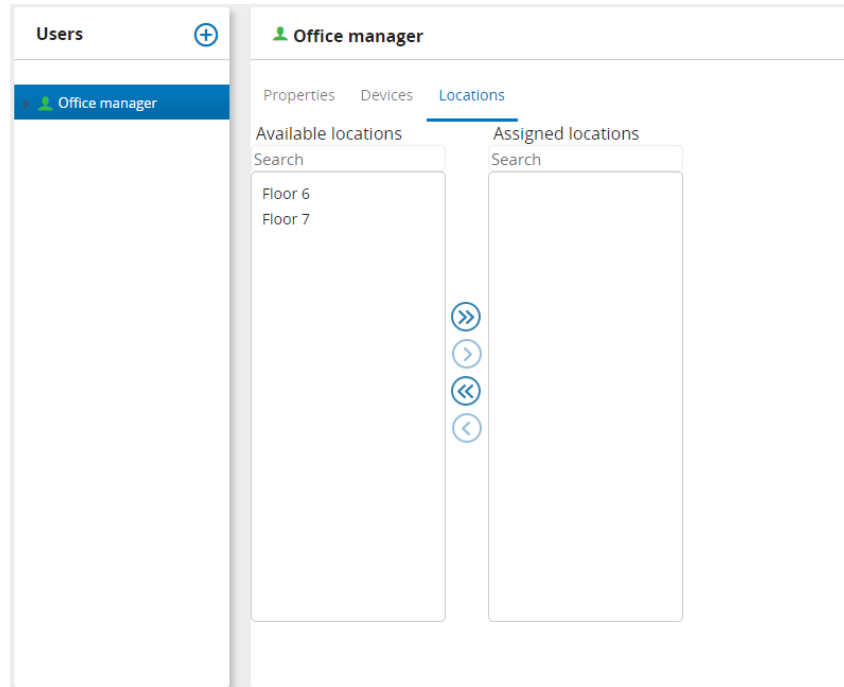


Figure 145: Assigning Locations to a User



A floor is assigned to an Administrator and a room to a User.

After the Super has assigned the floor to the administrator, the administrator has access to all the rooms on that floor and can then assign a room to his/her users.

3. Use the arrows to assign locations from the Available locations list.

Devices Management

Manage the device firmware via the Firmware side-tab in the Administration page. The Firmware tab enables performing the following actions:

- [Upgrading the Firmware](#) on page [108](#).
- [Managing Firmware Versions](#) on page [112](#).
- [Viewing Supported Devices](#) List on page [114](#).

Upgrading the Firmware

The Upgrade tab lists the devices, their current firmware version, other available versions, status and Log (firmware upgrade history).

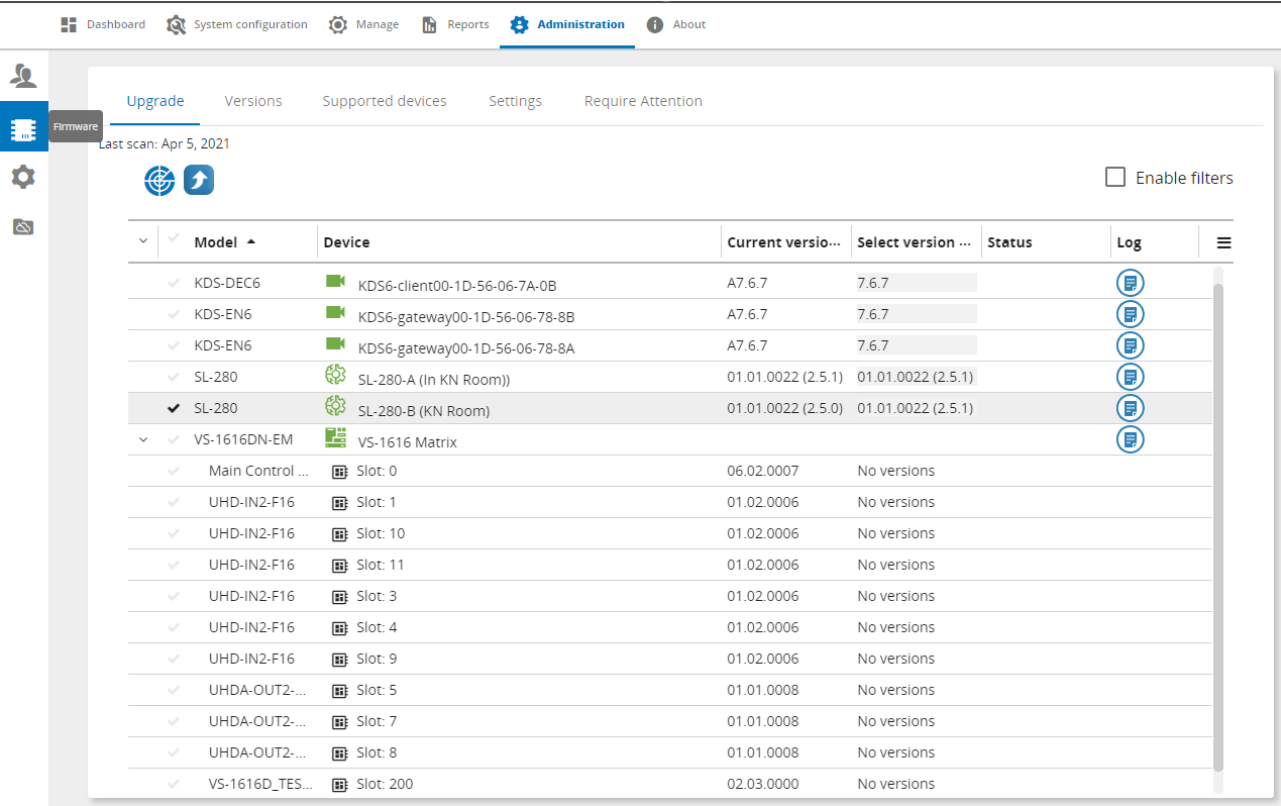



Figure 146: Device Firmware Upgrade

You can:

- Check **Enable filters** to filter out models, devices, versions and so on.



Figure 147: Enabling Filters

- Click  to select the columns in the table and clear filters if **Enable filters** box is checked.

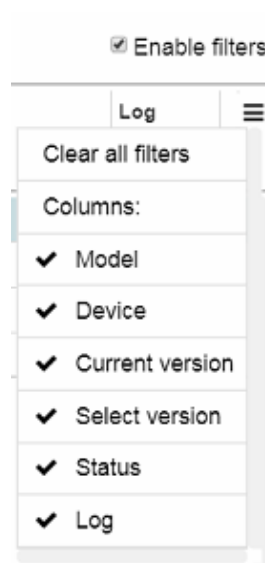



Figure 148: Device Firmware Upgrade Menu

- Click any column to change the alphabetical order of the list.
- Click the hyperlinked name of a **Device** to open its embedded web pages.
- Click  to update the table. The system scans for new devices and new firmware updates.

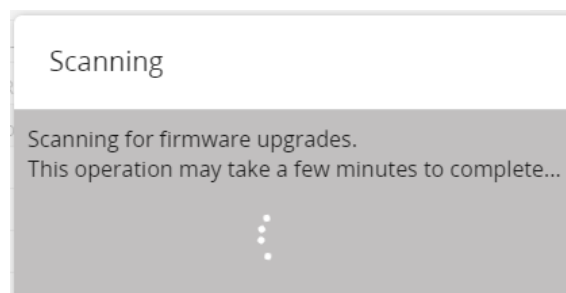




Figure 149: Scanning for Pro AV Devices Message

- Click  to upgrade the firmware of selected devices.
- View the current firmware version (**Current version**) of a device.
- Check for available firmware versions and select the desired one (**Select version**) and then upgrade the firmware (see [Upgrading the Firmware](#) on page [110](#)).
- Click  in the device row to check the device firmware upgrade history in the Log.


Upgrading the Firmware

To upgrade the firmware:

1. In the navigation pane click **Administration** and then select the **Firmware** tab.
2. In **Firmware** select **Upgrade**.
3. Check the models for which you want to perform a firmware upgrade (**SL-280** in this example).
You can upgrade the firmware of single or multiple devices simultaneously.

Model	Device	Current versio...	Select version ...	Status	Log
✓ KDS-DEC6	KDS6-client00-1D-56-06-7A-0B	A7.6.7	7.6.7		
✓ KDS-EN6	KDS6-gateway00-1D-56-06-78-8A	A7.6.7	7.6.7		
✓ KDS-EN6	KDS6-gateway00-1D-56-06-78-8B	A7.6.7	7.6.7		
✓ SL-280	SL-280-A (In KN Room))	01.01.0022 (2.5.1)	01.01.0022 (2.5.1)		
✓ SL-280	SL-280-B (KN Room)	01.01.0022 (2.5.0)	01.01.0022 (2.5.1)		
✓ VS-1616DN-EM	VS-1616 Matrix				
✓ Main Control ...	Slot: 0	06.02.0007	No versions		
✓ UHD-IN2-F16	Slot: 1	01.02.0006	No versions		
✓ UHD-IN2-F16	Slot: 10	01.02.0006	No versions		

Figure 150: Selecting Devices for Firmware Upgrade

4. Select the new firmware version (**Select version**).
5. Click .

The following message appears:

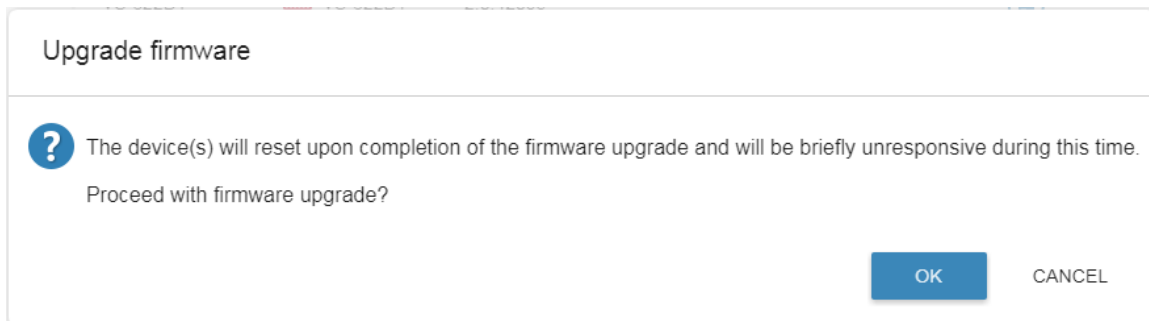


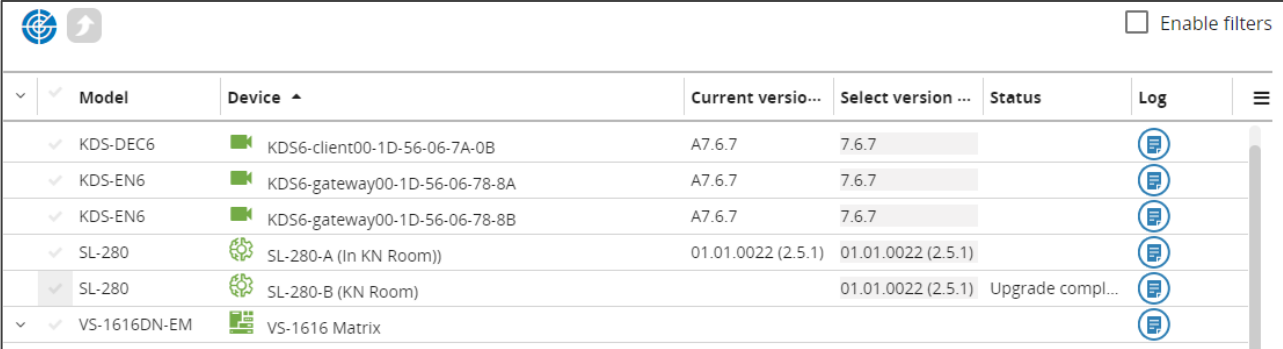
Figure 151: Firmware Upgrade Message

6. Click **OK**.
Firmware upgrade process is initialized.

Model	Device	Current versio...	Select version ...	Status	Log
✓ KDS-DEC6	KDS6-client00-1D-56-06-7A-0B	A7.6.7	7.6.7		
✓ KDS-EN6	KDS6-gateway00-1D-56-06-78-8A	A7.6.7	7.6.7		
✓ KDS-EN6	KDS6-gateway00-1D-56-06-78-8B	A7.6.7	7.6.7		
✓ SL-280	SL-280-A (In KN Room))	01.01.0022 (2.5.1)	01.01.0022 (2.5.1)		
✓ SL-280	SL-280-B (KN Room)	01.01.0022 (2.5.0)	01.01.0022 (2.5.1)	Uploading file 1/1 0 %	
✓ VS-1616DN-EM	VS-1616 Matrix				


Figure 152: Firmware Uploading

7. Wait for completion of the process.

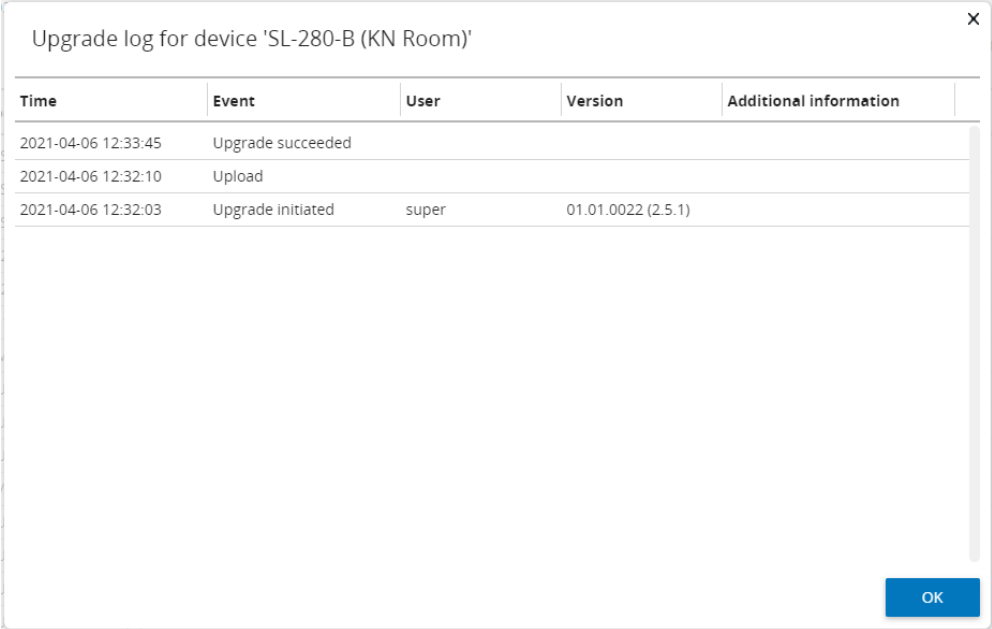


Model	Device	Current versio...	Select version ...	Status	Log
KDS-DEC6	KDS6-client00-1D-56-06-7A-0B	A7.6.7	7.6.7		
KDS-EN6	KDS6-gateway00-1D-56-06-78-8A	A7.6.7	7.6.7		
KDS-EN6	KDS6-gateway00-1D-56-06-78-8B	A7.6.7	7.6.7		
SL-280	SL-280-A (In KN Room))	01.01.0022 (2.5.1)	01.01.0022 (2.5.1)		
SL-280	SL-280-B (KN Room)		01.01.0022 (2.5.1)	Upgrade compl...	
VS-1616DN-EM	VS-1616 Matrix				

Figure 153: Firmware Upgrade Complete

 Some devices may need power recycling following firmware upgrade.

8. If required, click  to check the history **Log**.





Time	Event	User	Version	Additional information
2021-04-06 12:33:45	Upgrade succeeded			
2021-04-06 12:32:10	Upload			
2021-04-06 12:32:03	Upgrade initiated	super	01.01.0022 (2.5.1)	

Figure 154: Firmware Upgrade Log

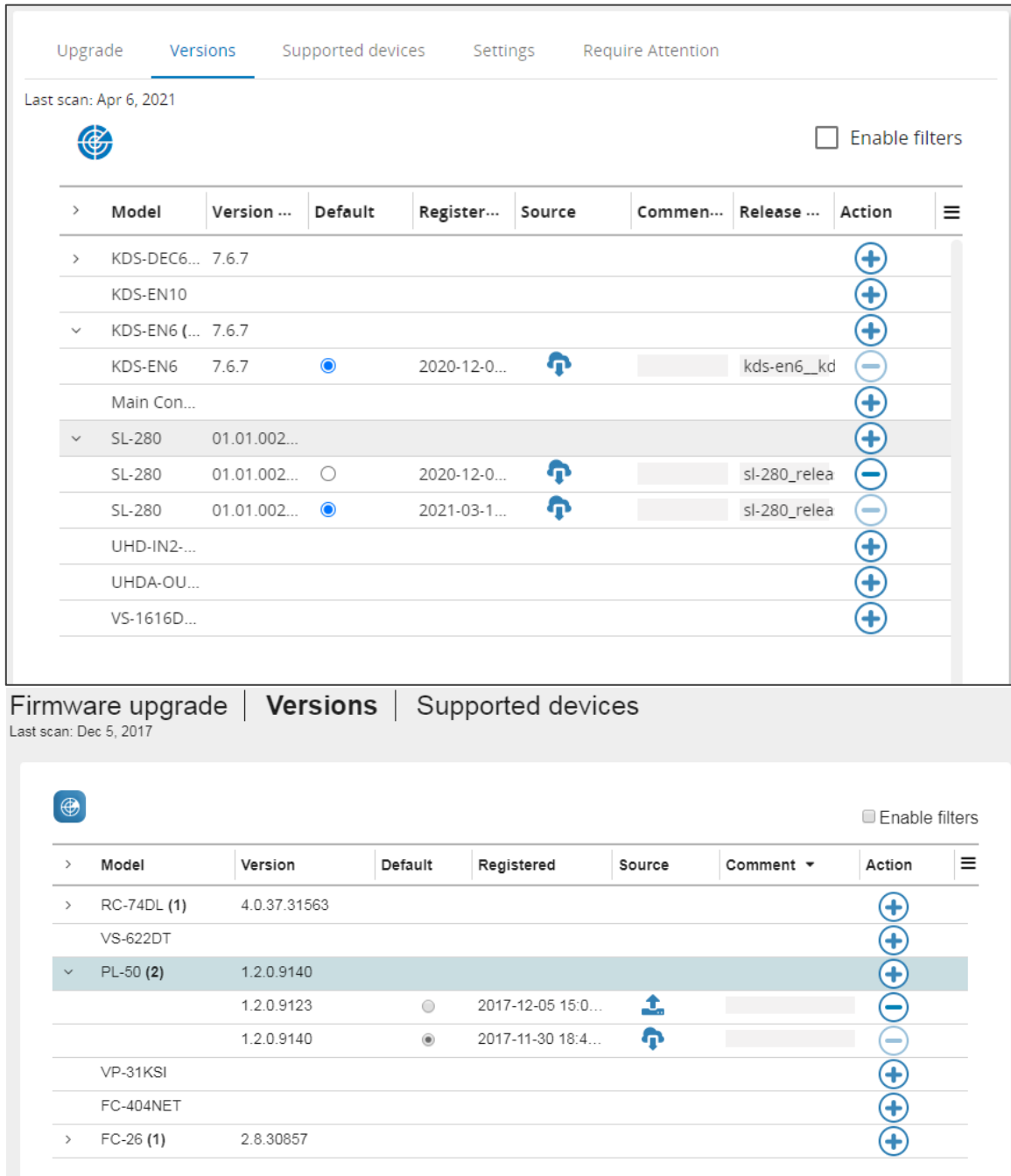
9. Click **OK** to exit the log.

Firmware upgrade is complete.

Managing Firmware Versions

The Versions management tab shows the firmware versions kept for each Pro AV device model. These firmware versions enter the system either through automatic download  or by manual upload .

If the **KRAMER NETWORK** server has access to the public Internet it automatically downloads the latest firmware for every device it discovers (from the Kramer service).



Upgrade | **Versions** | Supported devices | Settings | Require Attention

Last scan: Apr 6, 2021

Enable filters

>	Model	Version ...	Default	Register...	Source	Commen...	Release ...	Action
>	KDS-DEC6...	7.6.7						
	KDS-EN10							
∨	KDS-EN6 (...)	7.6.7						
	KDS-EN6	7.6.7	<input checked="" type="radio"/>	2020-12-0...			kds-en6_kd	
	Main Con...							
∨	SL-280	01.01.002...						
	SL-280	01.01.002...	<input type="radio"/>	2020-12-0...			sl-280_relea	
	SL-280	01.01.002...	<input checked="" type="radio"/>	2021-03-1...			sl-280_relea	
	UHD-IN2-...							
	UHDA-OU...							
	VS-1616D...							

Firmware upgrade | **Versions** | Supported devices




Last scan: Dec 5, 2017

Enable filters

>	Model	Version	Default	Registered	Source	Comment	Action
>	RC-74DL (1)	4.0.37.31563					
	VS-622DT						
∨	PL-50 (2)	1.2.0.9140					
		1.2.0.9123	<input type="radio"/>	2017-12-05 15:0...			
		1.2.0.9140	<input checked="" type="radio"/>	2017-11-30 18:4...			
	VP-31KSI						
	FC-404NET						
>	FC-26 (1)	2.8.30857					

Figure 155: Versions Tab

You can:

- Click  to search for new firmware versions. The latest downloaded version for a given device model is marked as the default  version for devices of that model.
- Click  to upload a new firmware file manually:

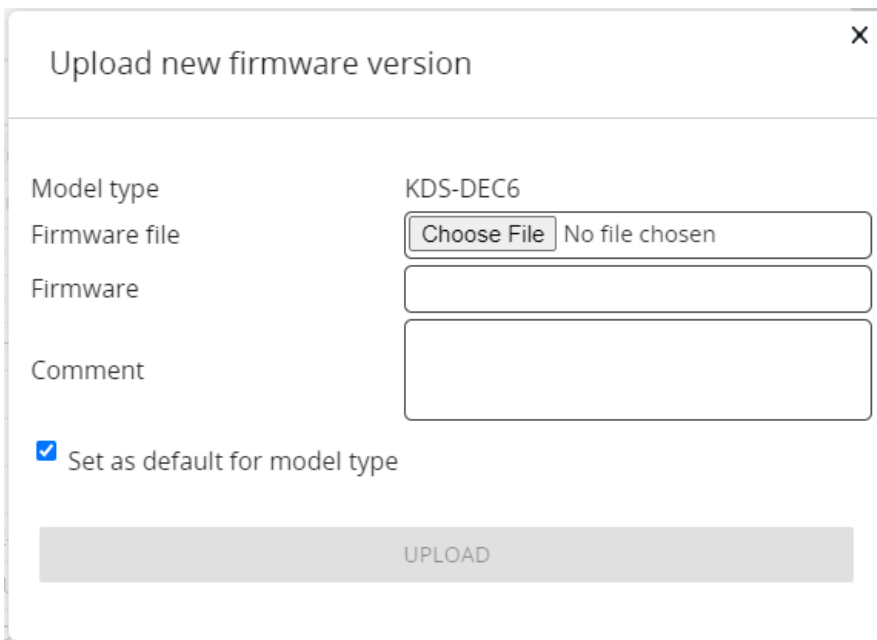


Figure 156: Uploading New Firmware Manually

- Check **Enable filters** to filter out models, devices, versions and so on.

>	Model	Version	Default	Registered	Source	Comment	Action	☰
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>		

Figure 157: Filtering Devices

- Click  to select the columns in the table.

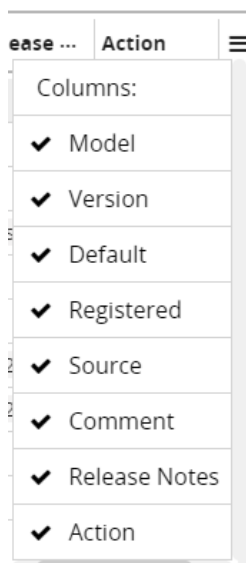


Figure 158: Versions Menu


- Type a comment under the **Comment** column.

Viewing Supported Devices List

The **Supported devices** tab lists all Kramer devices supported by **KRAMER NETWORK**.

Model ^	Type	Matrix view	FW upgrade	
691	Range Extender	No	Yes	
692	Range Extender	No	Yes	
908	Routing	Yes	Yes	
AFM-20	Routing	Yes	Yes	
AFM-20DSP	Routing	Yes	Yes	
AFM-20DSP-LE	Routing	Yes	Yes	
ASPEN-1616UX	Routing	Yes	Yes	
ASPEN-32UFX	Routing	Yes	Yes	
ASPEN-88UX	Routing	Yes	Yes	
DGKat-IN8-F64	Module Board	No	Yes	
DGKat-OUT8-F64	Module Board	No	Yes	
DGKatA-IN2-F16	Module Board	No	Yes	
DGKatA-OUT2-F16	Module Board	No	Yes	
DIP-20	Routing	Yes	Yes	
DIP-20M	Routing	Yes	Yes	

Figure 159: Supported Devices List

Click  to upload the descriptor (issued by Kramer) to upload new devices.

Upload device descriptors

Descriptor file No file chosen

Figure 160: Uploading Device Descriptors

KRAMER NETWORK only allows uploading of a list with a higher version number than the current one.

Setting Number of Concurrent Firmware Upgrades

In **Administration>Firmware>Settings**, set the maximum devices to perform firmware upgrade concurrently.

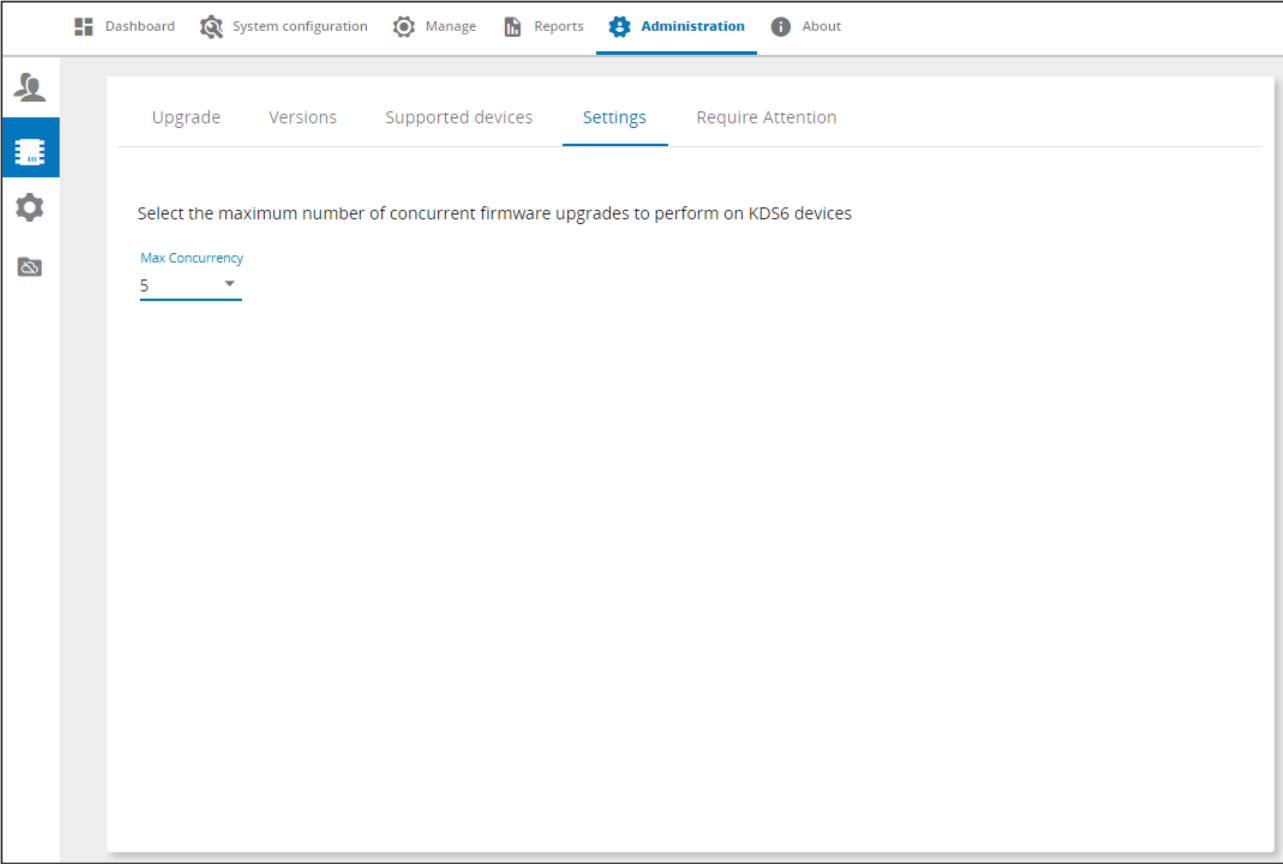


Figure 161: Firmware Settings

Viewing Devices that Failed Firmware Upgrade

The Require Attention tab lists the failed firmware upgrade attempts.

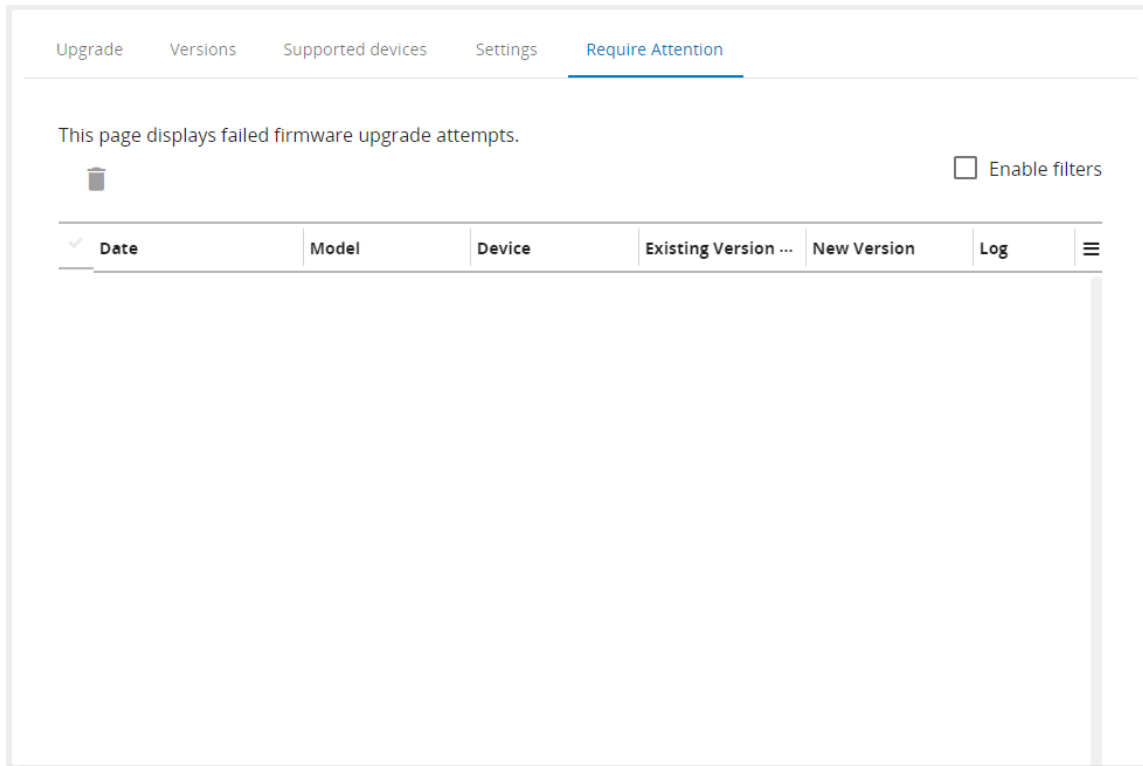


Figure 162: Devices Requiring Attention

Managing Settings

The **SYSTEM CONFIGURATION** tab (in the **Administration** page) enables performing the following actions:

- [Defining General Settings](#) on page [116](#).
- [Configuring the Email System](#) on page [120](#).
- [Creating LDAP Connections](#) on page [123](#).
- [Defining SNMP Server and Port](#) on page [126](#).
- [Setting Business Hours](#) on page [127](#).
- [Defining the Device Scanning Method](#) on page [128](#).

Defining General Settings

Use the **GENERAL** subtab to:

- [Selecting KRAMER NETWORK Language](#) on page [117](#).
- [Defining Dante Interfaces](#) on page [118](#).
- [Adding a Device Driver](#) on page [119](#).

Selecting KRAMER NETWORK Language

To change KRAMER NETWORK language:

1. In the navigation pane click **Administration** and then select **SETTINGS**.
2. Select **GENERAL**.

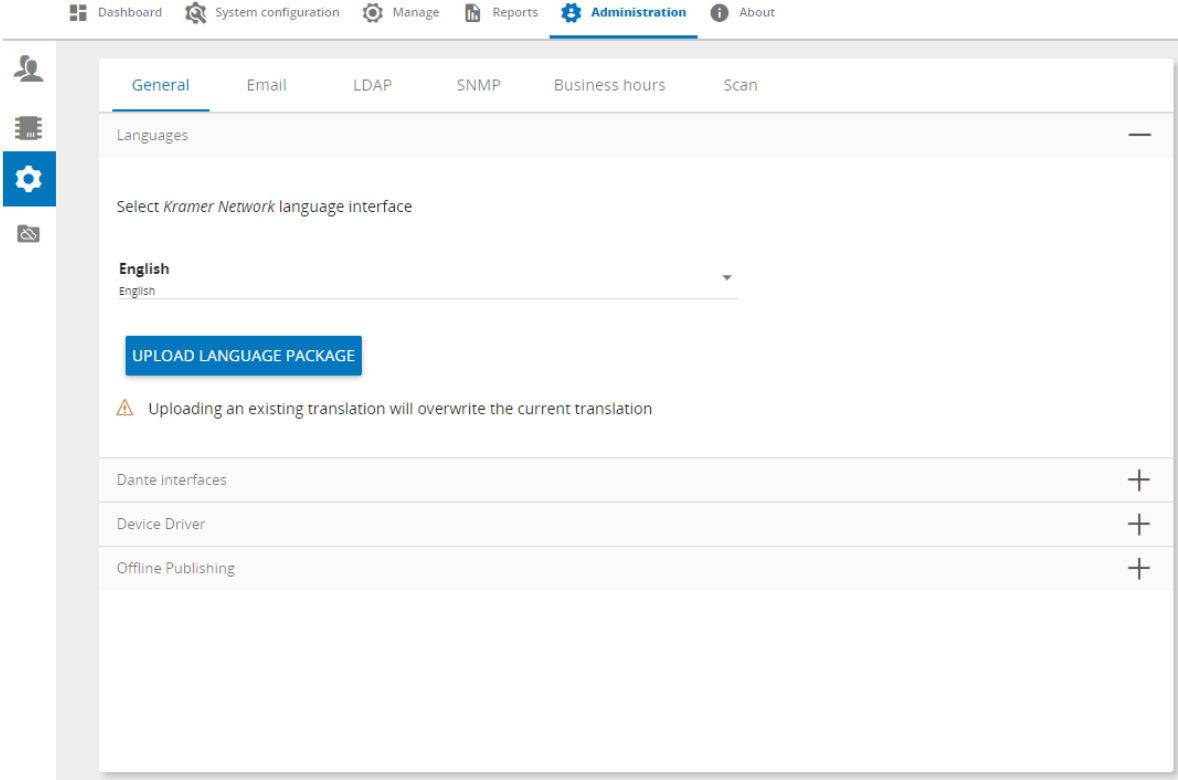


Figure 163: Uploading a Language Package

3. Open the language drop-down box and select the desired language.



Figure 164: Selecting a Language

4. Select the Language (for example, French). **KRAMER NETWORK** automatically reloads in the French version:

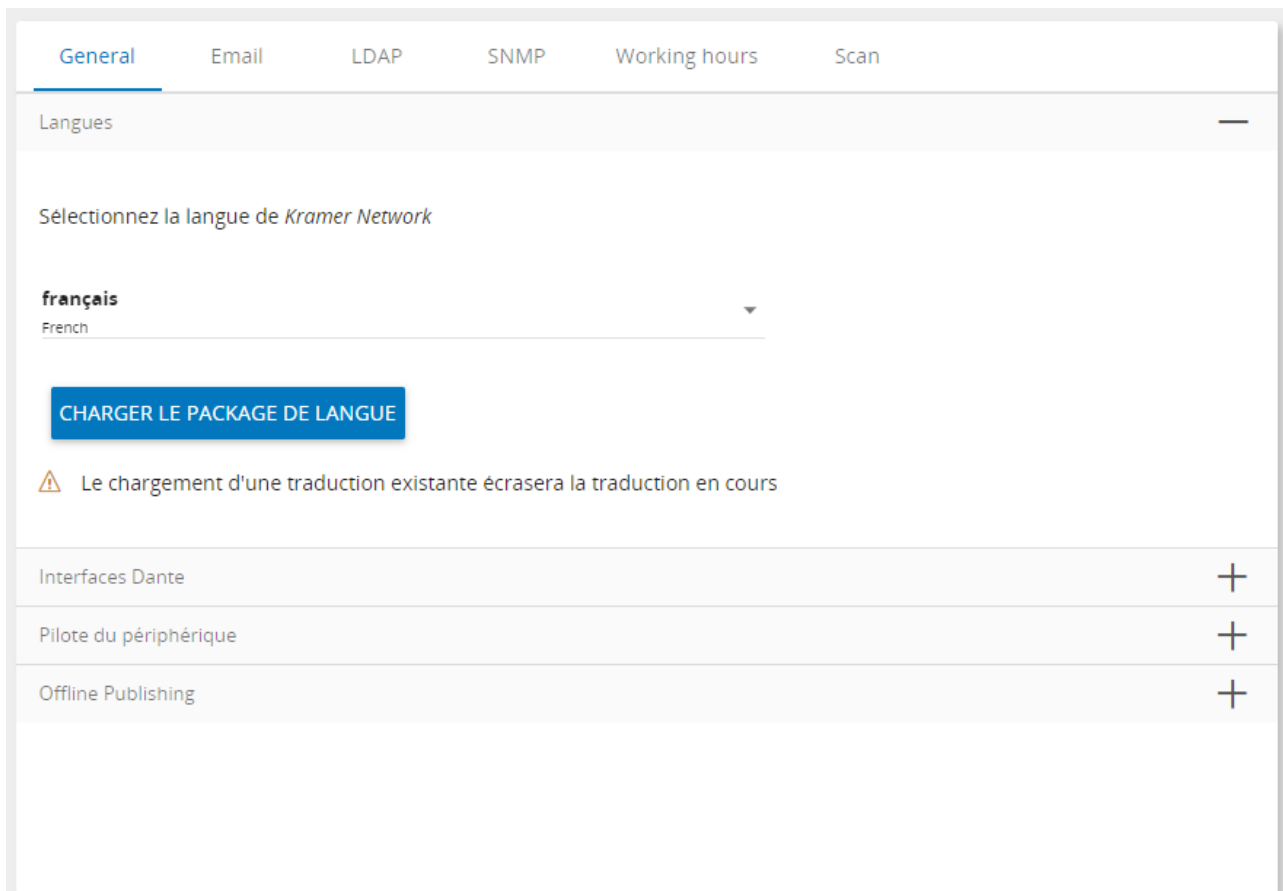


Figure 165: **KRAMER NETWORK** in French



If the desired language does not appear in the **Language** drop-down box, contact your local Kramer office to request a translation

The language has changed.

To upload the new translation:

1. Download that file to your system.
2. Click **UPLOAD LANGUAGE PACKAGE** to upload this file to **KRAMER NETWORK**.
3. Open the Language drop-down box and select your language.

Defining Dante Interfaces

To identify the network for communicating with other Dante devices, click + beside **Dante interfaces** and select Dante networks from the drop-down list.

Adding a Device Driver

To add a device driver that will be controlled by Maestro room automation:

1. In the navigation pane click **Administration** and then select **Settings**.
2. Select **General**.
3. Click + beside **Device Driver**.

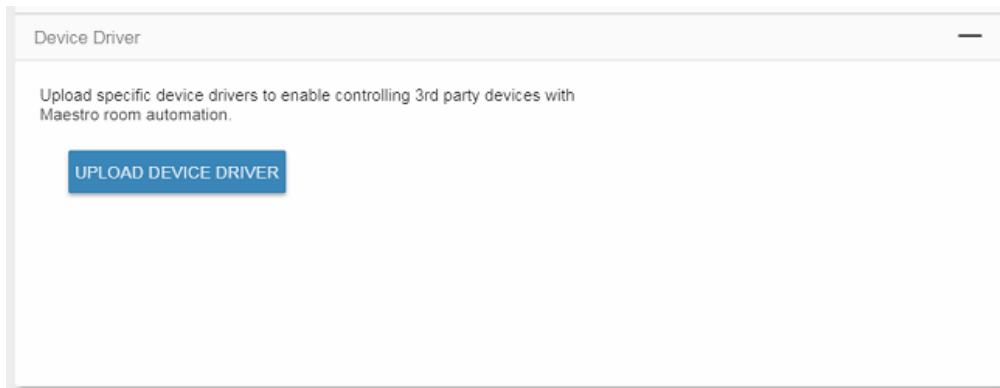


Figure 166: Adding a Device Driver

4. Click **UPLOAD DEVICE DRIVER**.
5. Select the device driver and follow the instructions on-screen.

A device driver is added.

Setting Offline Publishing Time

To select the offline publishing time:

1. In the navigation pane click **Administration** and then select **Settings**.
2. Select **General**.
3. Click + beside **Offline Publishing**.

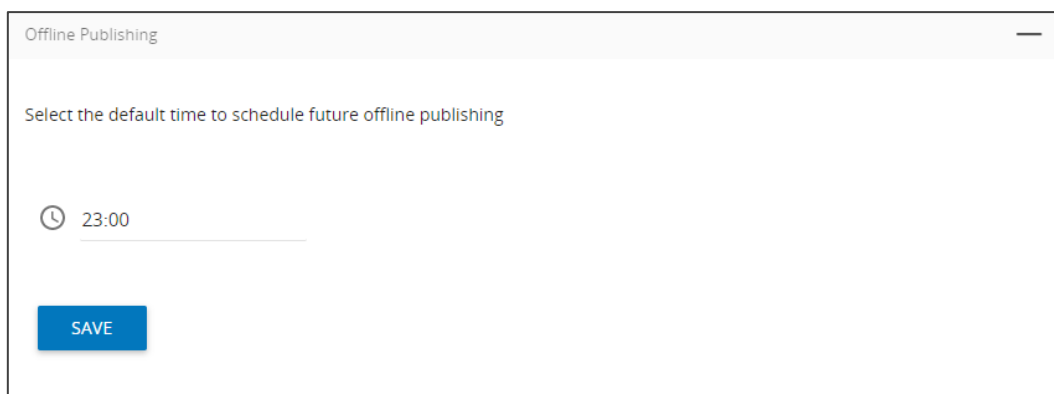


Figure 167: Setting Offline Publishing Time

4. Select the time for scheduling offline publishing.
5. Click **SAVE**.

Offline publishing is scheduled.

Configuring the Email System

Use the **EMAIL** subtab, to set an email address from which you receive **KRAMER NETWORK** notifications via Maestro. You can use one of the two available options:

- **sendmail** – email notifications are sent without the need to configure a specific SMTP.
- **SMTP** – emails are sent by using your company mail server.

To set the notification email via sendmail:

1. In the navigation pane click **Administration** and then select **SETTINGS>EMAIL**.
2. Open the **Mailing method** drop-down box and select the **sendmail** mailing method.

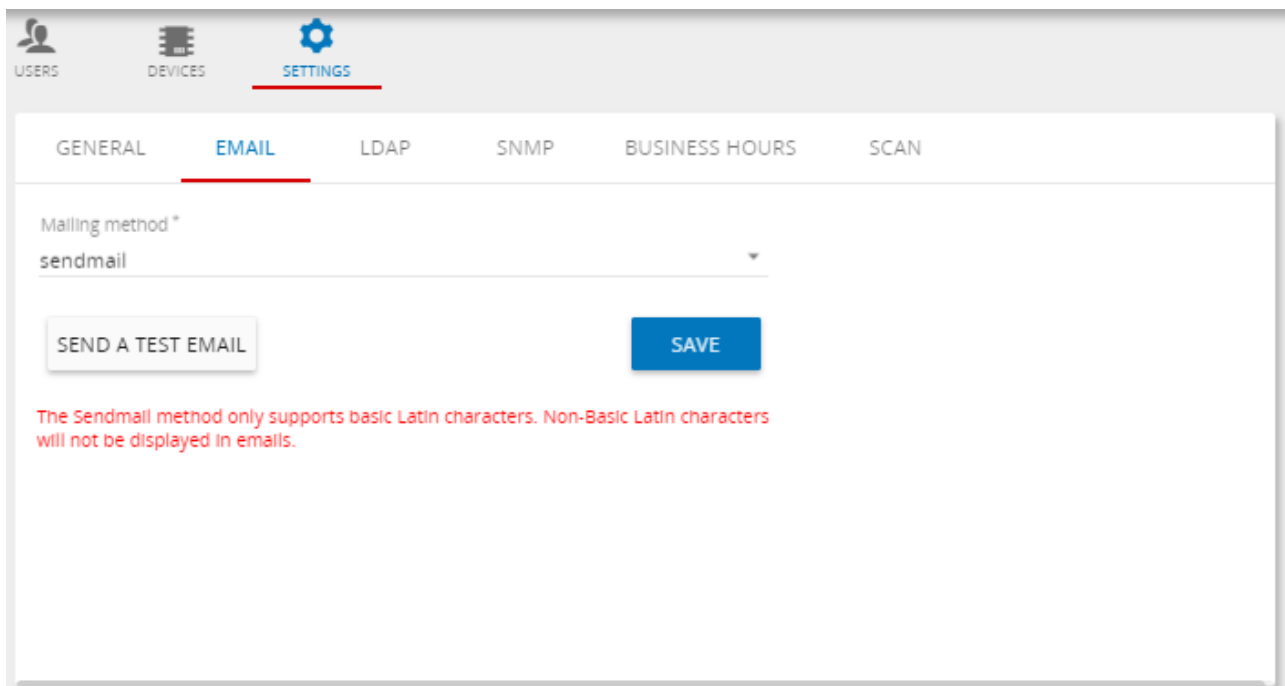


Figure 168: Sending Mail Notifications via Sendmail

3. Click **SAVE**. The following message appears:

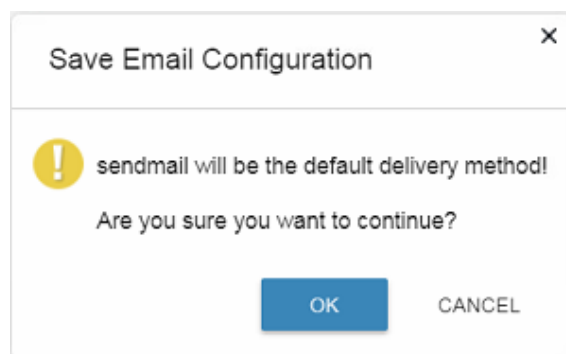


Figure 169: Saving Sendmail as the Default Configuration

4. Click **OK**.

5. Click **SEND A TEST MAIL**, if required, and type your email address.

Figure 170: Sending a Test Email

Wait for the test email from: noreply@kramernetwork.com.
Any email notifications will be sent from this address.

Email notification is set via sendmail.

To set the notification email via SMTP:

1. In the navigation pane click **Administration** and then select **SETTINGS>EMAIL**.
2. Open the **Mailing method** drop-down box and select the **SMTP** mailing method.
3. Fill in all the details (Server, Port and HELO Domain).
4. Select the Authentication method.
5. Add the email Username and Password.
6. Check **Use starttls** for a more secure connection using SSL/TLS.

Figure 171: Sending Mail Notifications via SMTP

7. Click **SAVE**.

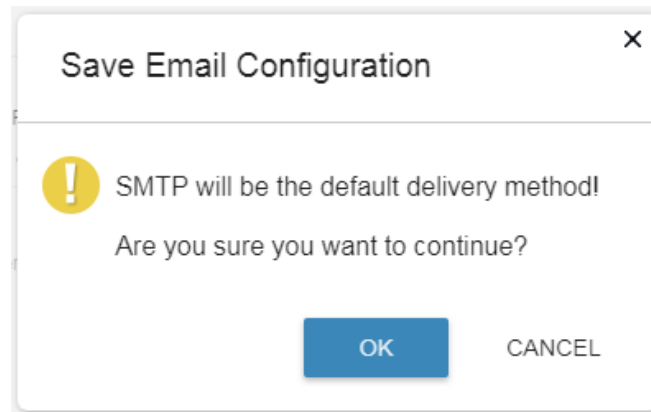


Figure 172: Saving SMTP as the Default Configuration

8. If required, click **SEND A TEST EMAIL**.

Email notification is set via SMTP.

Creating LDAP Connections

Configure your LDAP authentication connection via the **LDAP** subtab so that you can add users from your LDAP without the need to manage additional users and passwords. In addition, you can associate your LDAP locations to your **KRAMER NETWORK** locations, manage and view the location's schedule.



More than one connection can be added to **KRAMER NETWORK**.

To select LDAP connections:

1. In the navigation pane click **Administration** and then select the **Settings** tab.
2. In **Settings** select **LDAP**.

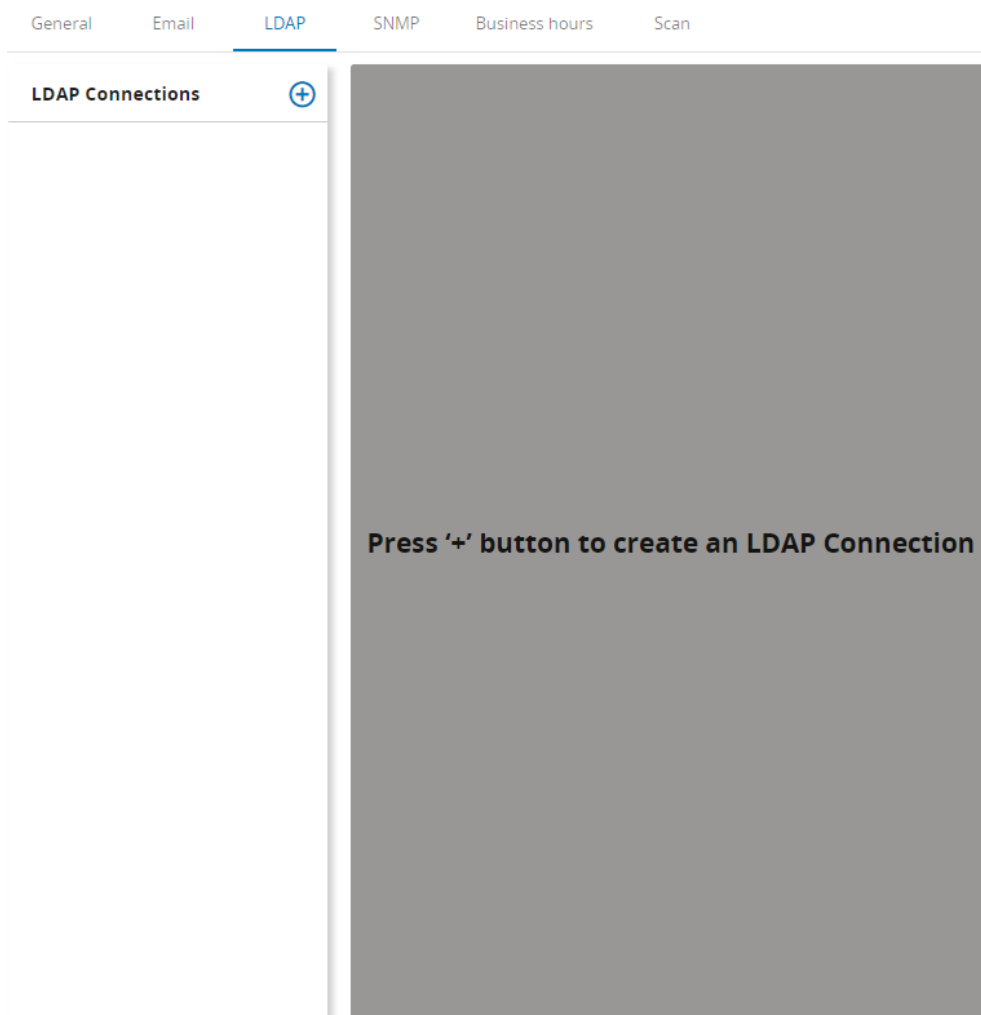
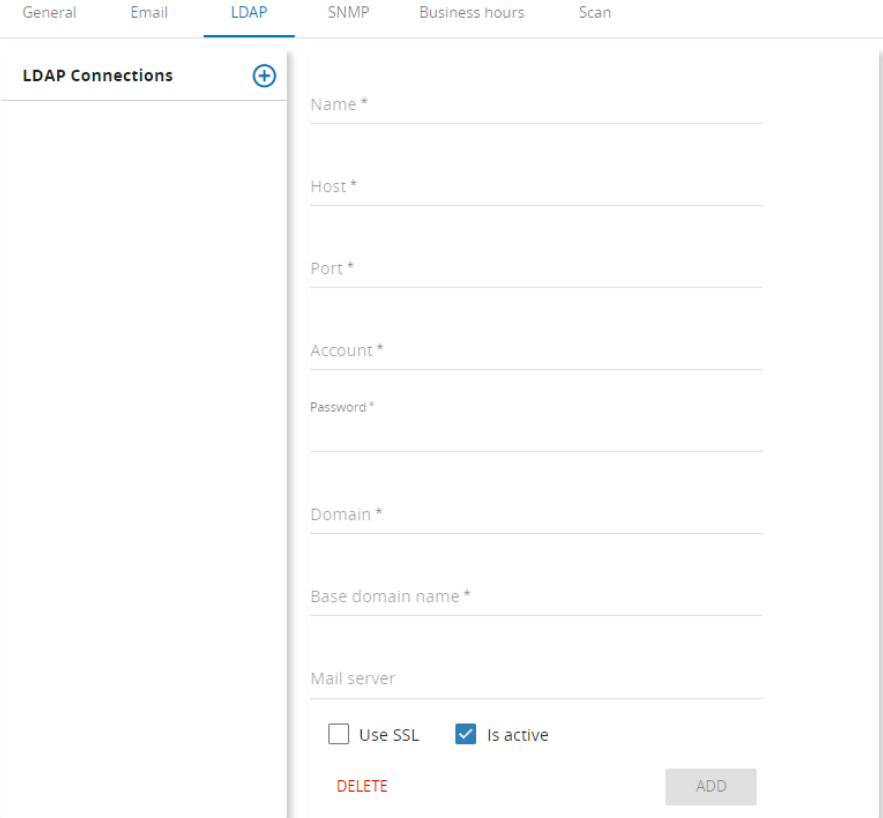



Figure 173: LDAP Connections Subtab

3. Click .



General Email **LDAP** SNMP Business hours Scan

LDAP Connections 

Name *

Host *

Port *

Account *

Password *

Domain *

Base domain name *

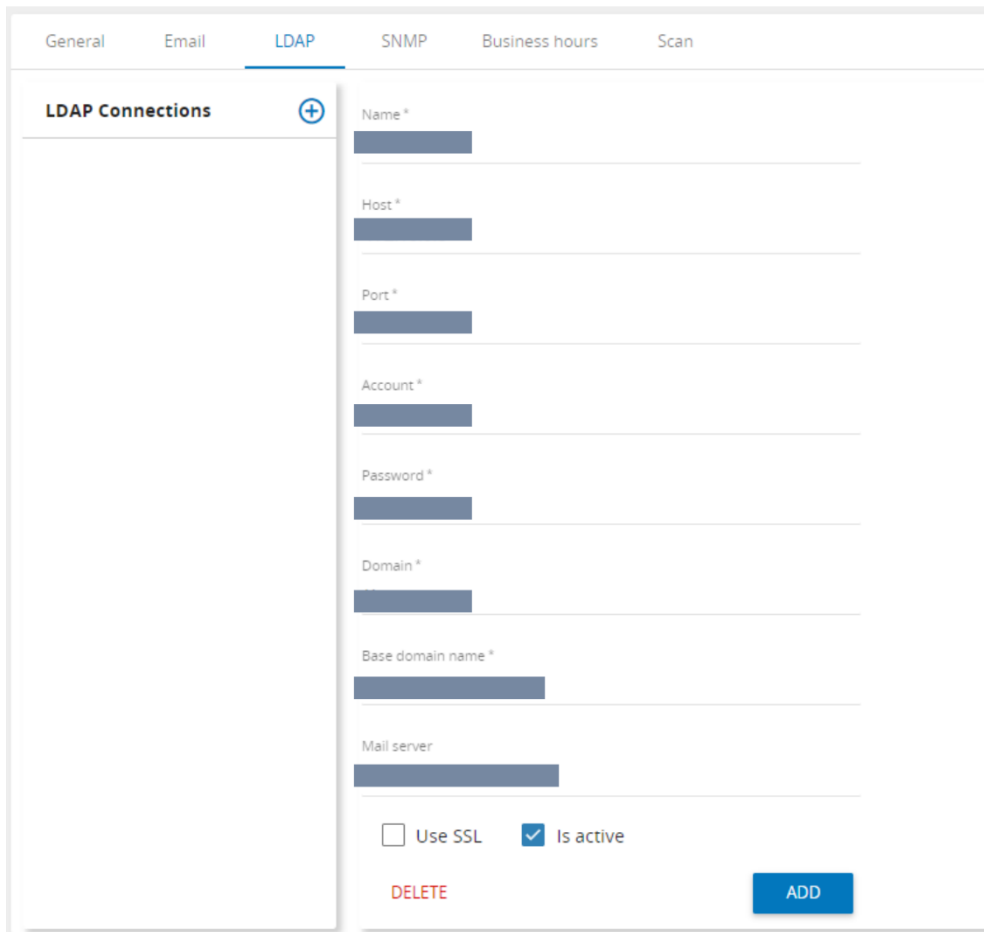
Mail server

Use SSL Is active

DELETE ADD

Figure 174: Adding a New LDAP Connection

4. Fill in the details.



The screenshot shows a web interface for configuring LDAP connections. At the top, there are tabs for 'General', 'Email', 'LDAP', 'SNMP', 'Business hours', and 'Scan'. The 'LDAP' tab is selected. Below the tabs, there is a section titled 'LDAP Connections' with a plus icon. The main form contains the following fields:

- Name *
- Host *
- Port *
- Account *
- Password *
- Domain *
- Base domain name *
- Mail server

At the bottom of the form, there are two checkboxes: 'Use SSL' (unchecked) and 'Is active' (checked). Below these checkboxes are two buttons: 'DELETE' (in red) and 'ADD' (in blue).

Figure 175: LDAP Connections – Adding LDAP Details

5. Click **ADD**.

LDAP connection is created.

Defining SNMP Server and Port

Configure the SNMP server. The SNMP connection allows you to create SNMP trap actions in your Room automation.

To define SNMP server and port:

1. In the navigation pane click **Administration** and then select the **Settings**.
2. Select **SNMP**:

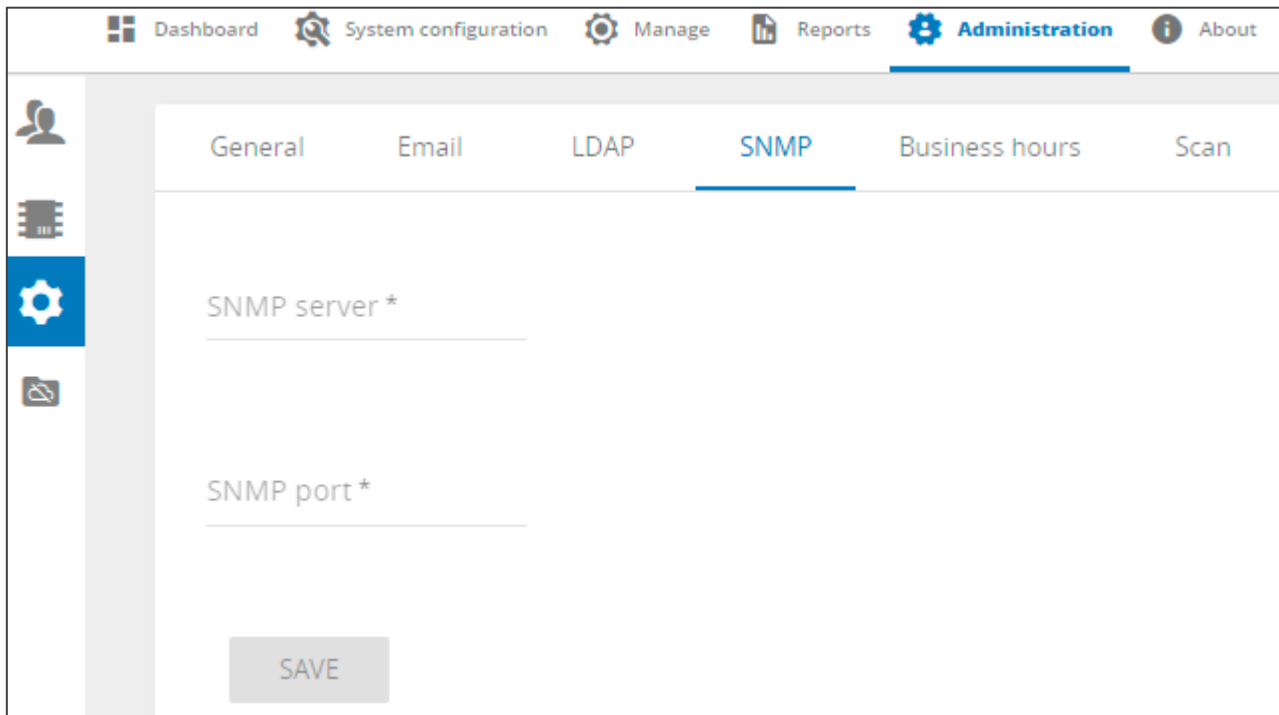


Figure 176: SNMP Settings

3. Set SNMP server and port and click **SAVE**.

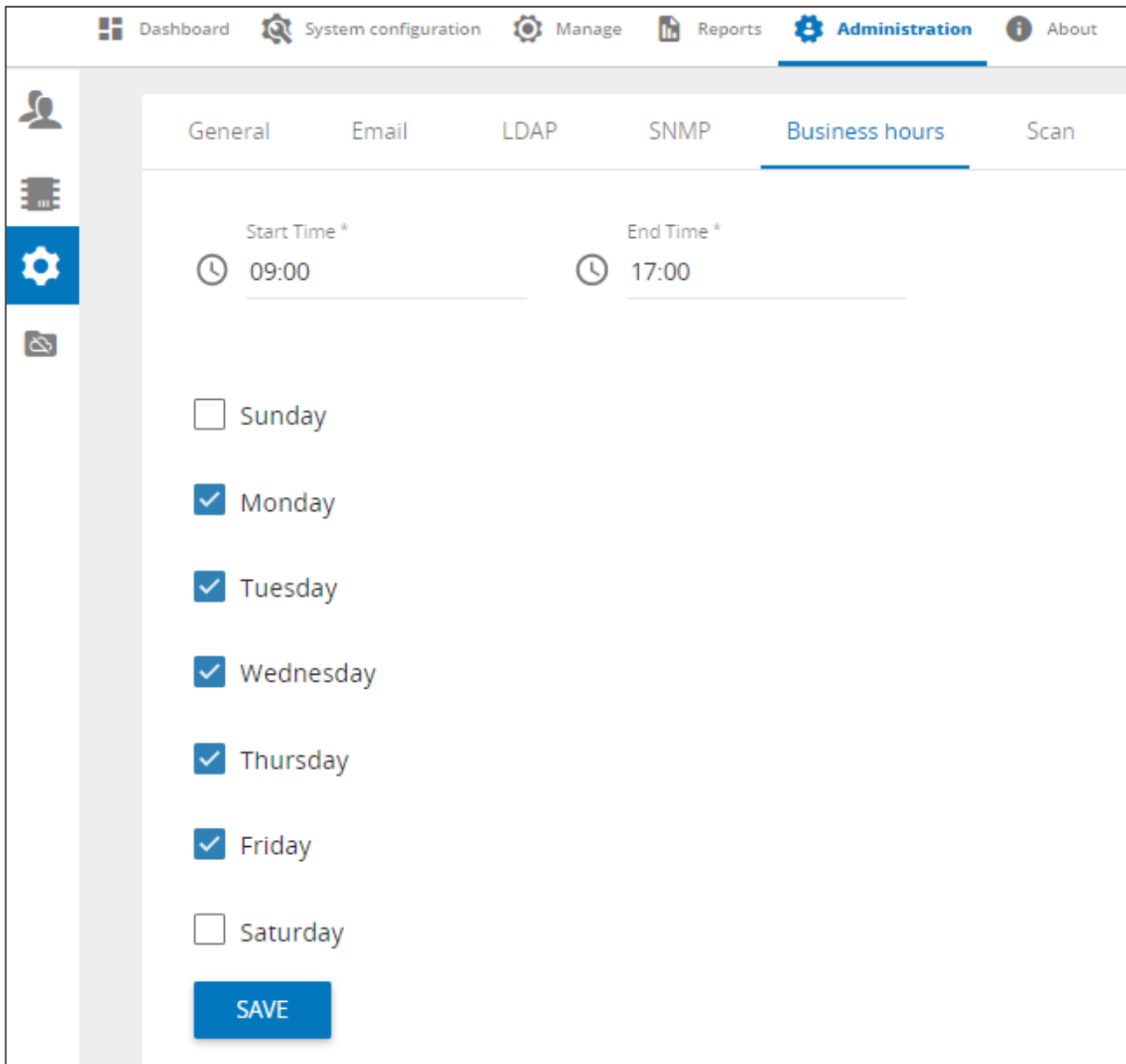
SNMP settings are defined.

Setting Business Hours

Configure your organization's business hours. Setting the business hours can assist you in your Maestro room automation.


To set business hours:

1. In the navigation pane click **Administration** and then select **Settings**.
2. Select **Business Hours**.



The screenshot shows the 'Business hours' configuration page. At the top, there is a navigation bar with 'Administration' selected. Below it, a sub-navigation bar shows 'Business hours' as the active tab. The main content area has two time input fields: 'Start Time *' set to '09:00' and 'End Time *' set to '17:00'. Below these are checkboxes for each day of the week: Sunday (unchecked), Monday (checked), Tuesday (checked), Wednesday (checked), Thursday (checked), Friday (checked), and Saturday (unchecked). A blue 'SAVE' button is located at the bottom of the form.

Figure 177: Business Hours Settings

3. Check the relevant business days.
4. Type the **Start Time/End Time** the working hours or click  to set working hours:

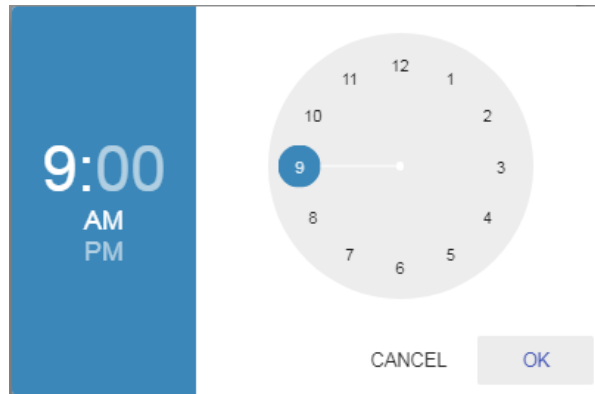


Figure 178: Setting Working Hours

5. Click **OK**.
Business hours are updated.
6. Click **SAVE**.
Business days and hours are defined.

Defining the Device Scanning Method

Following installation, **KRAMER NETWORK** scans the system automatically. This default base scan includes scanning for devices that support P3K, KDS6 and Dante™ devices, as well as VIA devices.



The base scan is read-only, cannot be changed, and is carried out after system installation, restart, when pressing the scan button or it can be scheduled via the scan scheduler.

For each scan you can define the scan segment which includes the IP address range for discovering devices, the scan methods and the probe methods:

Scan Segment	Parameter	Description
IP Address Range	First 2 digits: enter a number between 0 and 255. Last 2 digits: enter a range of numbers between 0-255.	Sets range of IP addresses to be scanned.
Scan Method	Ping, TCP Connect and/or Broadcast (the local subnet)	Defines method used to detect whether a device is active or not.
Probe Method	P3K or VIA	Checks if the detected IP address is supported by the system.

Generally, the scanning procedure includes the following steps:

- A range of IP addresses is defined, which includes the devices to be searched.
- The system attempts to connect to each IP address in the defined range, using ping or TCP connect methods.
- The system checks if the discovered devices are supported (by the recognized P3K or VIA protocols).



A scan segment can be shared by more than one configured scan.

Different IP address ranges (including overlapping addresses) can be used in different configured scan segments.

The SCAN tab enables performing the following actions:

- [Running Base Scan Operations](#) on page [129](#).
- [Scheduling a Scan](#) on page [130](#).
- [Configuring a New Scan](#) on page [130](#).

Running Base Scan Operations

To access the base scan from the SCAN tab:

1. In the navigation pane click **Administration** and then select **Settings**.
2. Select **Scan**. The Scan list appears.

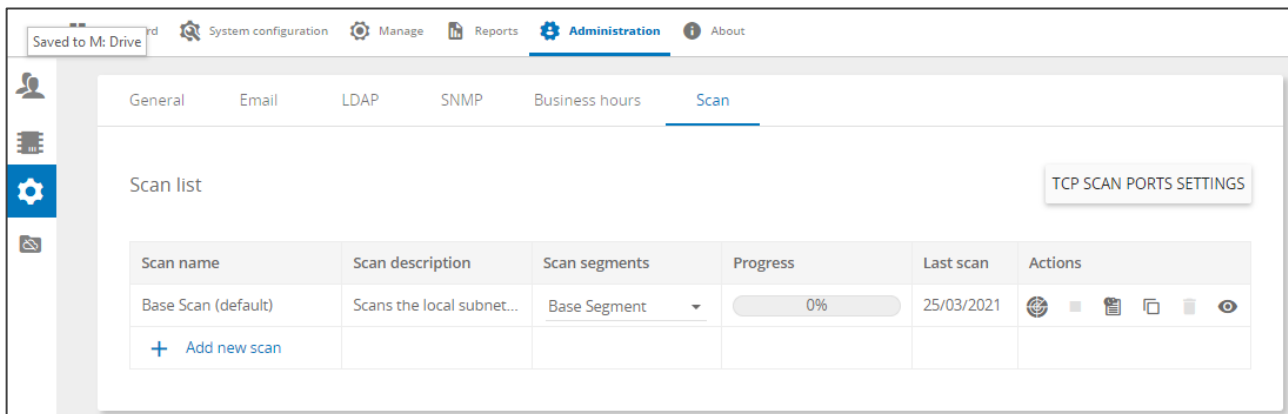


Figure 179: SETTINGS – SCAN Tab





3. You can view the scan name and description, the scan segments, the date of the latest scan and perform the following actions:
 - Click to run a scan.
 - View the scan progress.
 - Click to stop a scan.
 - Click to view the scan results.

Managed device	IP address	Manufacturer	Device name	Device model	Device type	Edit
✓	192.168.1.10	Kramer Electronics Ltd.	KDS6-gateway00-1D-56-06-78-8A	KDS-EN6	IP Encoder	
✓	192.168.1.11	Kramer Electronics Ltd.	KDS6-gateway00-1D-56-06-78-8B	KDS-EN6	IP Encoder	
✓	192.168.1.20	Kramer Electronics Ltd.	KDS6-client00-1D-56-06-7A-0A	KDS-DEC6	IP Decoder	
✓	192.168.1.21	Kramer Electronics Ltd.	KDS6-client00-1D-56-06-7A-0B	KDS-DEC6	IP Decoder	
✓	192.168.1.39	Kramer Electronics Ltd.	KDS6-client001D5604F27E	KDS-DEC6	IP Decoder	
✓	192.168.1.40	Kramer Electronics Ltd.	KDS-EN6-3 (KN)	KDS-DEC6	IP Decoder	
✓	192.168.1.128	Kramer Electronics Ltd.	SL-280-B (KN Room)	SL-280	IO Gateway, Brain	
✓	192.168.1.230	Kramer Electronics Ltd.	VS-1616 Matrix	VS-1616DN-EM	Routing	

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06/04/2021 2:34:10 PM CLOSE



Figure 180: Base Scan Results

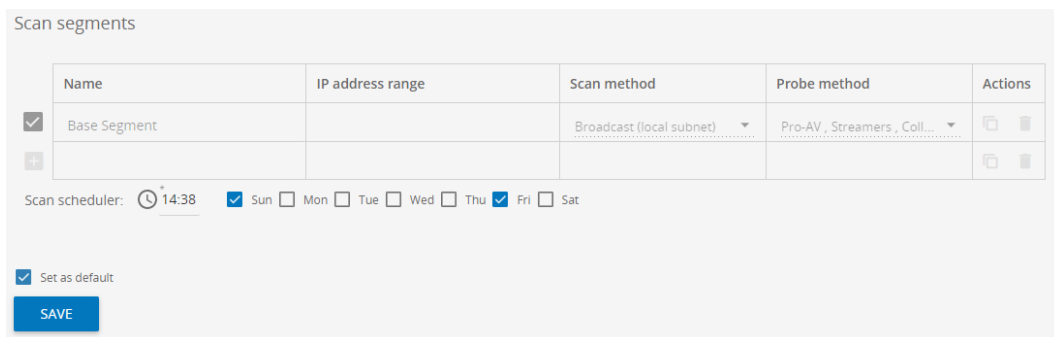
- Click  to configure a device in the list (see [Editing Device Parameters](#) on page 24).
- Click  to duplicate a scan.
- Click  to delete a scan (disabled for base scan).
- Click  to view scan details.





Base scan from the SCAN tab is accessed.


Scheduling a Scan

To set the base scan scheduler to automatically scan the subnet:

1. In the Base scan row, click  to view scan details.
2. Click .
3. Enter Scan scheduler time and days and click **SAVE** to carry out scheduled scans.



Name	IP address range	Scan method	Probe method	Actions
<input checked="" type="checkbox"/> Base Segment		Broadcast (local subnet)	Pro-AV, Streamers, Coll...	 
<input type="checkbox"/>				 

Scan scheduler:  14:38 Sun Mon Tue Wed Thu Fri Sat

Set as default

SAVE

Figure 181: Base Scan Scheduler

Scan is scheduled.

Configuring a New Scan

The following example shows how to configure a scan for two separate floors in a company building.

To configure a new scan:

1. In the navigation pane click **Administration** and then select **Settings**.
2. Select **Scan**.

3. Click **Add new scan**.



Uncheck the box next to Base Segment if you do not need to use it.

Scan name	Scan description	Scan segments	Progress	Last scan	Actions
Base Scan (default)	Scans the local subnet u...	Base Segment	100%	06/04/2021	
New scan					

Scan name * X

Description

10 / 45 0 / 120

Scan segments

	Name	IP address range	Scan method	Probe method	Actions
<input type="checkbox"/>	Base Segment		Broadcast (local subnet)	Pro-AV, Streamers, Coll...	
<input type="button" value="+"/>					

Scan scheduler: 14:44 Sun Mon Tue Wed Thu Fri Sat

Set as default

Figure 182: Entering a New Scan

4. Enter a scan name (Company HQ Building Scan) and description (find all the devices in the building, across VLANs).
5. Click + next to New segment.
6. In Scan segments, check the segments you want to include in the scan.
7. Add the IP address range/s per segment:
 - Under IP Address click +. The following window opens:

Add IP address range X

IP address range name *

New address range

17 / 45

192 . 168 . 1 . 1-255

Figure 183: Add IP Address Range Window

- Enter the IP address range name (this range can be used again for other configured scans).
- Click **SAVE**.

8. Under Scan method, open the drop-down box and select one or more scan method.

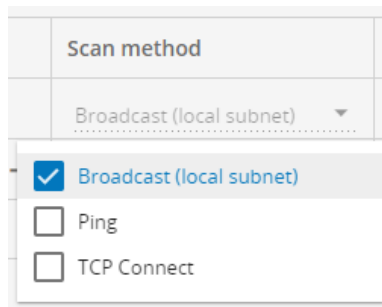


Figure 184: Selecting the Scan Method

In this example, select all the scan methods.

- If TCP is selected as a scan method, click **TCP SCAN PORTS SETTINGS**. The following window appears:

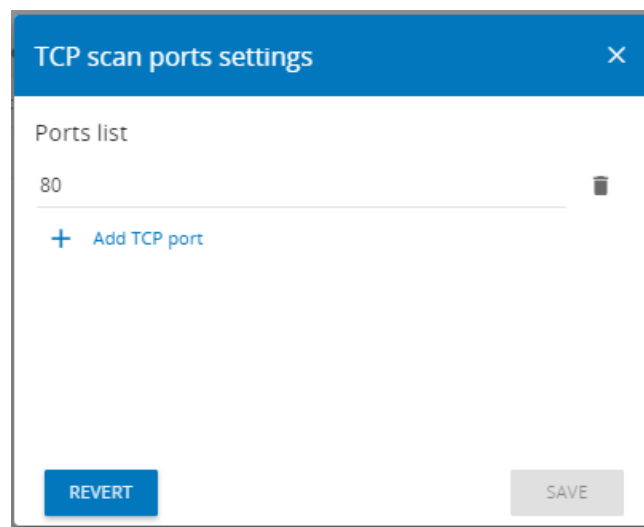


Figure 185: TCP Scan Ports Settings

- Add/delete the relevant TCP ports.
 - Click **SAVE**.
9. Under Probe method, open the drop-down box and select the device types you want to scan.

10. Set the scan scheduler.

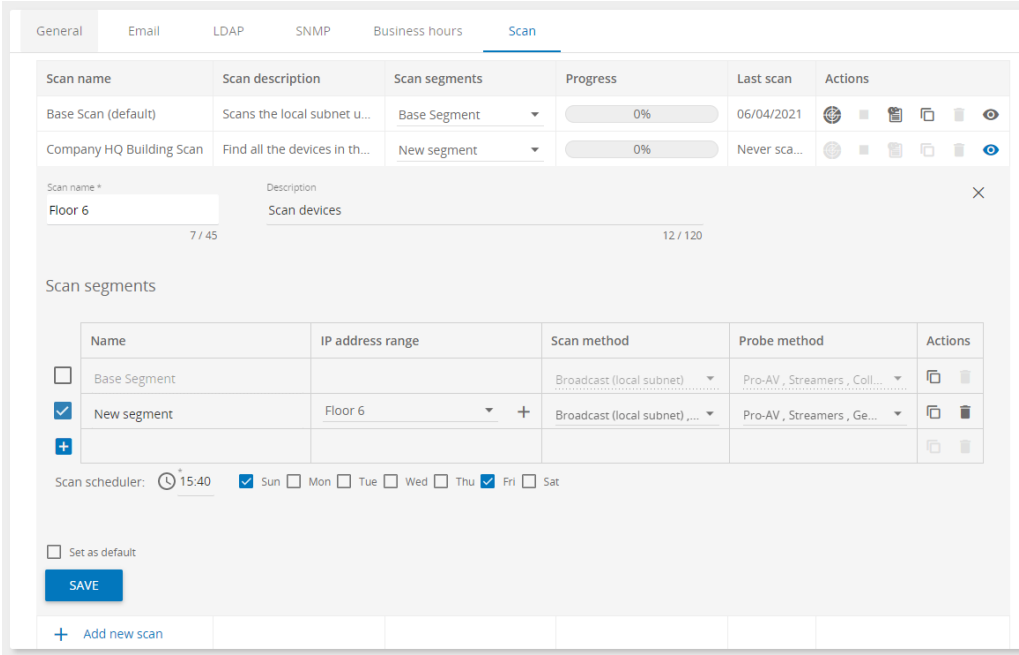


Figure 186: Setting the Scan Scheduler

11. Click **SAVE**.



You can click **SAVE** at any time during the scan configuration process.

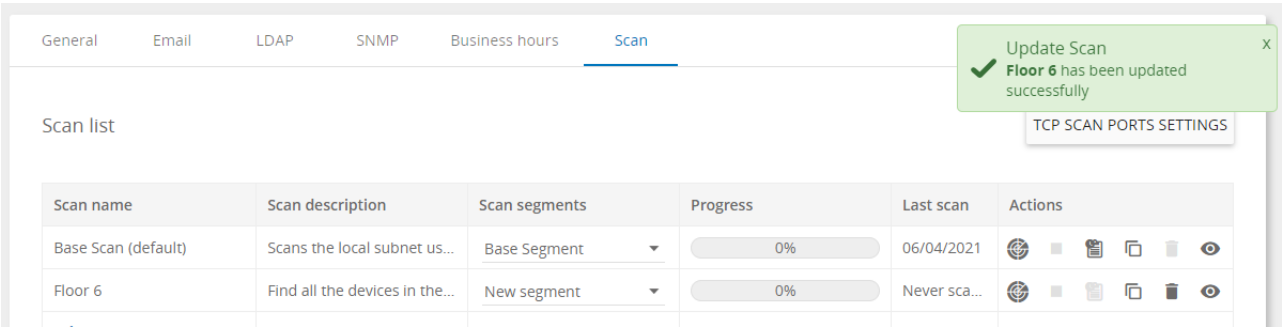



Figure 187: New Scan Saved

New scan is added.

To scan Floor 7, create the second segment in the scan:

1. Click  to copy the Floor 6 scan details (or if adding a completely new scan, click **+ Add new scan**).
2. Change the scan name (to Floor 7).
3. Make any other changes if necessary.

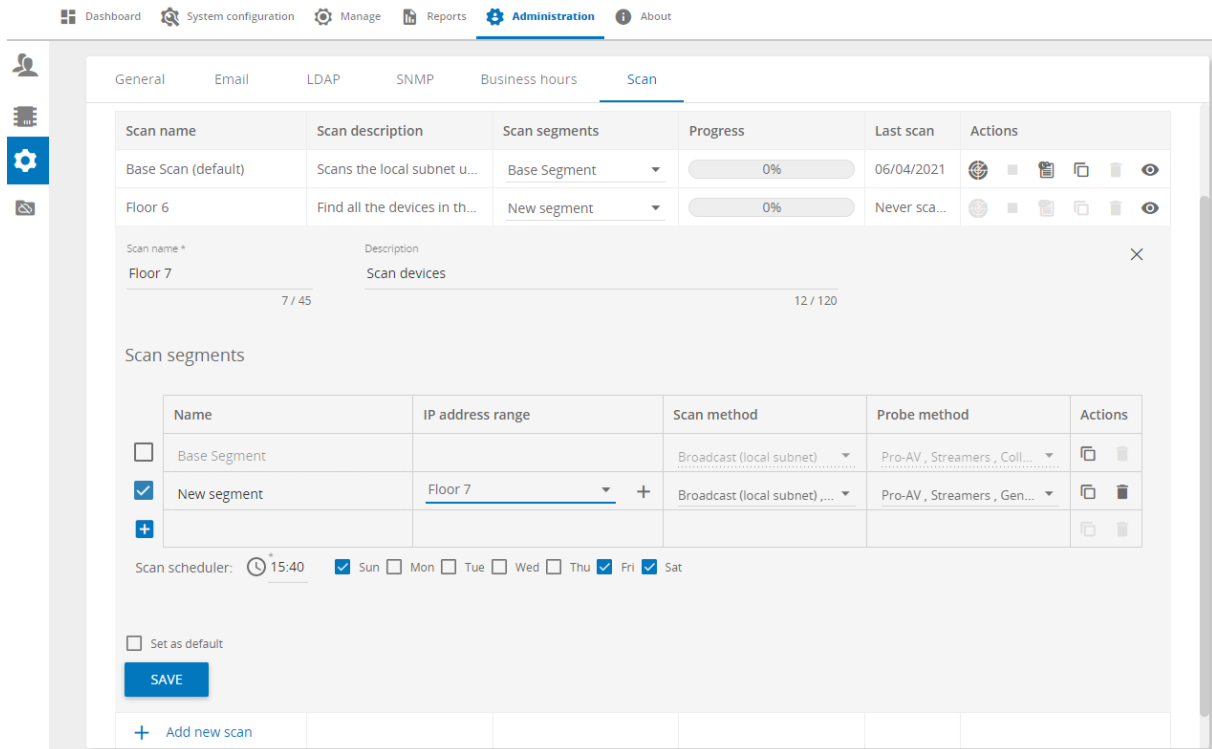


Figure 188: Changing Scan Definitions

4. Click **SAVE**.

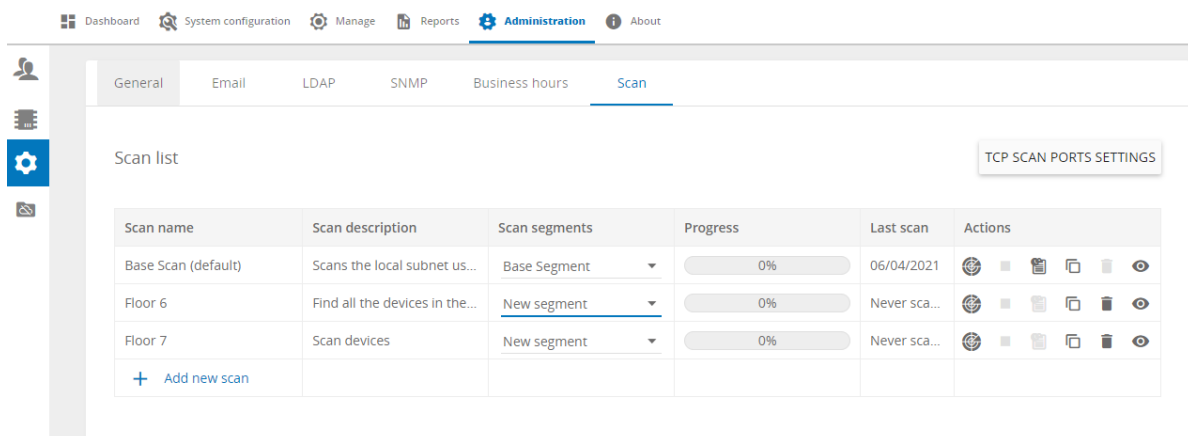



Figure 189: HQ Building Scan Example Complete

A second segment is added to the scan.

You can now click  to activate this scan (apart from the scheduled scans). Once scan is complete view the scan results list.

You can also view edit and define other scanning methods via **Administration > Settings > Scan**.

Offline Publishing

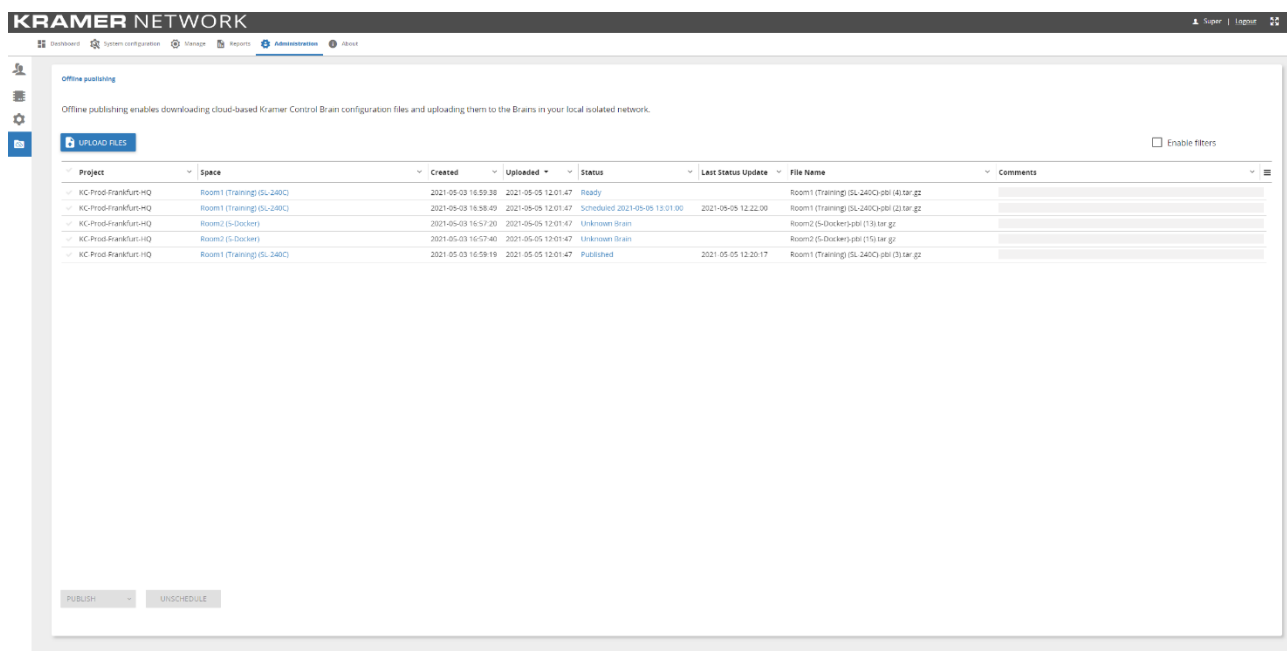
Offline publishing enables the user to upload cloud-based Kramer Control Brain configuration files in two easy steps and then publish it:

1. Download cloud-based Kramer Control Brain configuration files from the cloud to a memory stick or your PC (for example).
2. Upload the files to the Brains in your local network (see [Uploading Configuration Files to the Brains in your Local Network](#) on page 135).
3. Publish the configuration files, each to its specific space (see [Publishing Configuration Files](#) on page 136).

Uploading Configuration Files to the Brains in your Local Network

To upload the configuration files from a memory stick, for example:

1. Insert your memory stick to the **KRAMER NETWORK** server.
2. In the navigation pane, click **Administration>Offline publishing** side-tab.
3. Click **UPLOAD FILES**.
4. Select the Brain configuration files from your folder (or memory stick) and click **Open**. The files are uploaded.



Project	Space	Created	Uploaded	Status	Last Status Update	File Name	Comments
✓ KC-Prod-Frankfurt-HQ	Room1 (Training) (SL-240C)	2021-05-03 16:59:38	2021-05-05 12:01:47	Ready		Room1 (Training) (SL-240C) job (4).tar.gz	
✓ KC-Prod-Frankfurt-HQ	Room1 (Training) (SL-240C)	2021-05-03 16:58:49	2021-05-05 12:01:47	Scheduled	2021-05-05 13:01:00	Room1 (Training) (SL-240C) job (2).tar.gz	
✓ KC-Prod-Frankfurt-HQ	Room2 (S-Docker)	2021-05-03 16:57:20	2021-05-05 12:01:47	Unknown Brain		Room2 (S-Dockers) job (13).tar.gz	
✓ KC-Prod-Frankfurt-HQ	Room2 (S-Docker)	2021-05-03 16:57:40	2021-05-05 12:01:47	Unknown Brain		Room2 (S-Dockers) job (15).tar.gz	
✓ KC-Prod-Frankfurt-HQ	Room1 (Training) (SL-240C)	2021-05-03 16:58:19	2021-05-05 12:01:47	Published	2021-05-05 12:20:17	Room1 (Training) (SL-240C) job (3).tar.gz	

Figure 190: Brain Configuration Files



Note that each of the files listed in the Offline publishing table is already assigned to a specific Space/Brain.

Configuration file is uploaded.

Publishing Configuration Files

Once the configuration files are loaded, you can publish one or multiple files into their specific space.

To publish the configuration files:

1. Click the check mark next to a project(s) to select a file(s).
2. Click the **PUBLISH** drop-down box and select one of the following:
 - **Now** – to start the publishing process immediately.
 - **Schedule** – to schedule a future date and time for publishing.

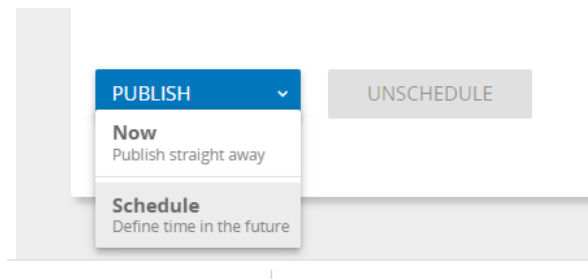


Figure 191: PUBLISH Drop-down Box

If Schedule is selected, you can set the date and time and click **SAVE**.

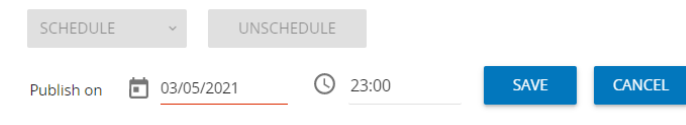


Figure 192: Scheduling Offline Publishing

The status shows the publishing schedule.

Project	Space	Created	Uploaded	Status	Last Status Update	File Name
KC-Prod-Frankfurt-HQ	Room1 (Training) (SL-240C)	2021-05-03 16:59:38	2021-05-05 12:01:47	Ready		Room1 (Training) (SL-240C)-pbl (4).tar.gz
KC-Prod-Frankfurt-HQ	Room1 (Training) (SL-240C)	2021-05-03 16:58:49	2021-05-05 12:01:47	Scheduled	2021-05-05 13:01:00	Room1 (Training) (SL-240C)-pbl (2).tar.gz
KC-Prod-Frankfurt-HQ	Room2 (S-Docker)	2021-05-03 16:57:20	2021-05-05 12:01:47	Unknown Brain		Room2 (S-Docker)-pbl (13).tar.gz
KC-Prod-Frankfurt-HQ	Room2 (S-Docker)	2021-05-03 16:57:40	2021-05-05 12:01:47	Unknown Brain		Room2 (S-Docker)-pbl (15).tar.gz
KC-Prod-Frankfurt-HQ	Room1 (Training) (SL-240C)	2021-05-03 16:59:19	2021-05-05 12:01:47	Published	2021-05-05 12:20:17	Room1 (Training) (SL-240C)-pbl (3).tar.gz

Figure 193: Scheduling Status

Configuration files are published.

To delete a scheduled publishing process:

1. Click the check mark next to the project.
2. Click **UNSCHEDULE**. Scheduling status is cleared.

Configuration file is deleted.

About Page

The About page displays the system version and Activation History, as well as Kramer Electronics Ltd details:

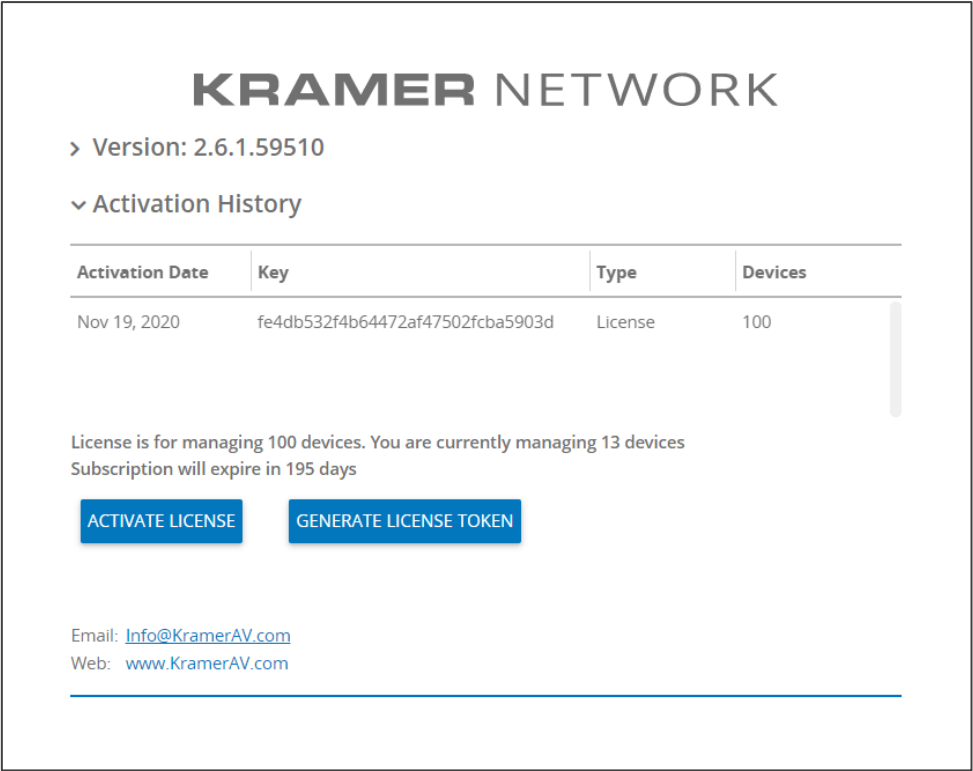


Figure 194: The About Page

Click **Update License** to access the registration screen (see [Acquiring and Activating Licenses](#) on page 8).

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Version 2, June 1991

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2. Kramer fiber optic cables, adapter-size fiber optic extenders, pluggable optical modules, active cables, cable retractors, ring mounted adapters, portable power chargers, Kramer speakers, and Kramer touch panels are all covered by a standard one (1) year warranty.
3. All Kramer Cobra products, all Kramer Calibre products, all Kramer Minicom digital signage products, all HighSecLabs products, all streaming, and all wireless products are covered by a standard three (3) year warranty.
4. All Sierra Video MultiViewers are covered by a standard five (5) year warranty.
5. Sierra switchers & control panels are covered by a standard seven (7) year warranty (excluding power supplies and fans that are covered for three (3) years).
6. K-Touch software is covered by a standard one (1) year warranty for software updates.
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This limited warranty is void if (i) the label bearing the serial number of this product has been removed or defaced, (ii) the product is not distributed by Kramer Electronics or (iii) this product is not purchased from an authorized Kramer Electronics reseller. If you are unsure whether a reseller is an authorized Kramer Electronics reseller, visit our web site at www.kramerav.com or contact a Kramer Electronics office from the list at the end of this document.

Your rights under this limited warranty are not diminished if you do not complete and return the product registration form or complete and submit the online product registration form. Kramer Electronics thanks you for purchasing a Kramer Electronics product. We hope it will give you years of satisfaction.



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SAFETY WARNING

Disconnect the unit from the power supply before opening and servicing

For the latest information on our products and a list of Kramer distributors, visit our Web site where updates to this user manual may be found.

We welcome your questions, comments, and feedback.