AXIS Audio Manager Edge

User manual

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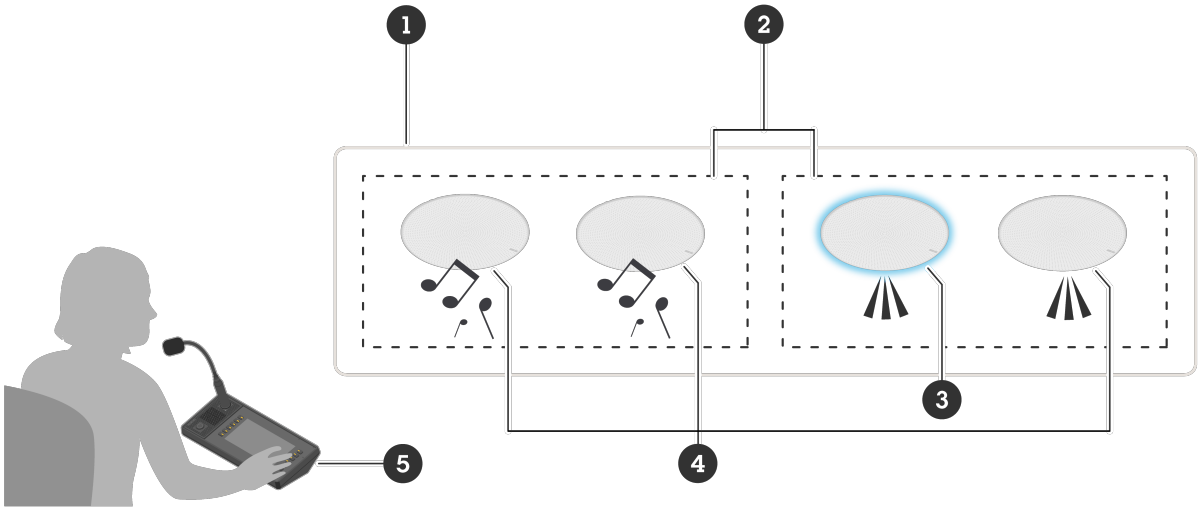
What is AXIS Audio Manager Edge?

AXIS Audio Manager Edge is included on every Axis audio device with a firmware version of 10.0 or later. AXIS Audio Manager Edge is used for managing and controlling your audio system in a small or mid-sized local site. It allows you to set up your audio devices in separate zones (up to 20 zones and 200 devices) where you can play different kinds of content, such as live or scheduled announcements or background music – one global set of zones per content type. You can easily set up schedules for your weekly content. Built-in health monitoring ensures that you know the full status of your system.

Example: A simple system with four speakers and one paging console

A simple system with four speakers and one paging console

In this example, one zone is currently playing music while the other zone is playing an announcement. An operator can use the paging console to speak a message to selected speakers.



1 ***Audio site****: All the devices on the physical location are organized within an audio site. The audio site has one leader device which is controlling the physical zones and content within the site.*

2 ***Physical zone****: A grouping of devices that are located within the same physical area. Normally all speakers in the same physical zone play the same content with the same volume.*

3 ***Leader device****: The primary device that manages the AXIS Audio Manager Edge audio site. This device should have an SD card if you need extended storage for your site (primarily music files). The leader device runs schedules and distributes content to the follower devices.*

4 ***Follower device****: All other devices than the leader device are followers. They are controlled by the leader and receives audio.*

5 ***Additional device****: Devices that are not added as followers, but are still part of the audio site, such as AXIS C6110 Paging Console.*

You can manage your site remotely with **AXIS Audio Manager Center**. For more information, see *AXIS Audio Manager Center user manual*.

You can adjust volumes and page messages from your smartphone, using **AXIS Audio Manager mobile app**. The app is available on Google Play and App Store. If you are not using AXIS Audio Manager Center, you need a local Wi-Fi connection to the audio system.

If you have a large site with many devices, we recommend that you use **AXIS Audio Manager Pro** instead of AXIS Audio Manager Edge. See *axis.com/products/axis-audio-manager-pro* for more information.

	AXIS Audio Manager Edge	AXIS Audio Manager Pro
Number of devices	200	5000
Number of zones	20	100

Scheduling	Weekly	Advanced
License	Free	Licensed

What's new?

For the new features in each AXIS Audio Manager Edge release, go to *help.axis.com/whats-new-in-axis-audio-manager-edge*.

Get started

To use AXIS Audio Manager Edge you need to have your audio devices installed and connected to the network.

When you open AXIS Audio Manager Edge on a device for the first time, that device will be the leader device of the site. The leader device is responsible for hosting the AXIS Audio Manager Edge site, performing health monitoring on the follower devices and distributing content to the follower devices.

Note

Do not use AXIS C6110 Paging Console as a follower. It will communicate directly with the intermediary devices.

Note

If you need space for music files, then use a leader device with an SD card. We also recommend that you choose a leader device that is within easy reach, in case you need to replace the SD card.

If you want to use a different device as leader in the future, see *Change leader device, on page 25*.

1. Make sure your network is configured.
   See *Configure the network, on page 7*
2. Upgrade your devices to the latest AXIS OS version.
3. Select a device to use as leader.

   Note

   We recommend that the leader device use a static IP address or that you lock the IP address in your DHCP server.

   - **Highly recommended**: AXIS C1110, AXIS C1111, AXIS C1310 Mk II*, AXIS C1410 Mk II*, AXIS C1710, AXIS C1720, AXIS D4200, AXIS D3110 Mk II
   - **Recommended**: AXIS C8210, AXIS C8110, AXIS C1210, AXIS C1211, AXIS C1510, AXIS C1511, AXIS C1610
   - **Not recommended**: AXIS C1004, AXIS C3003, AXIS C8033, AXIS C1310*, AXIS C1410*
   - **Not possible**: 2N SIP Mic, AXIS C6110, AXIS C8310, AXIS D3110

     * No SD card available
4. Go to the device webpage for your leader device, by entering the following address in a web browser: `https://###.##.##.##` where ###.##.##.## should be the IP address of your leader device.

Note

To find Axis devices on the network and assign them IP addresses in Windows®, use AXIS IP Utility or AXIS Device Manager. Both applications are free and can be downloaded from *axis.com/support*.

For more information about how to find and assign IP addresses, go to *How to assign an IP address and access your device*.

5. Go to **System > Date and time** and set the time and time zone.
6. Open AXIS Audio Manager Edge:
   - Go to **Audio > AXIS Audio Manager Edge** and click **Create audio site**.
     AXIS Audio Manager Edge opens in your browser.
7. Click **Get started**.
8. Accept the terms and conditions and click **Next**.
9. Name your site.
10. Enter a name for your first physical zone.

Note

When creating your first physical zone already here, the leader device will automatically be added to the zone. Also, the zone will be pre-selected when you create schedules for music, advertisements and announcements.

11. Add your devices and give them appropriate names. These will become follower devices.
    For instructions on how to add, rename and delete devices, see *Manage devices, on page 9*.
12. Verify the time settings of your follower devices so that they use the same time settings as the leader.
    12.1. Go to **Devices**.
    12.2. Open the web interface for the follower devices by clicking ••• > **Advanced device settings**.
    12.3. In the web interface for each follower device, go to **System settings > Time and date** and make sure the correct time is used.

Note

You can also use AXIS Device Manager to check and set the time for the follower devices. For more information, see *axis.com/support/tools/axis-device-manager*.

13. Configure your audio system:
    - Add content and define where and when to play it.
      See *Schedule content, on page 11*
    - Set up paging.
      See *Paging, on page 14*
    - Set or calibrate the volume for different devices, content types and physical zones.
      See *Adjust volumes, on page 19*
    - Add users and define their access rights.
      See *Manage users, on page 24*
14. To see what is currently playing and upcoming, go to **Playback** > **Agenda**.
15. To monitor your system, go to **Dashboard**:
    - See how many devices that are online, and if any of them have stopped working.
    - See the status of audio that is currently playing.

Configure the network

Time synchronization between the audio devices in the system is essential. The easiest way to ensure this is to use an NTP server located either on your local network or accessible from the local network. The speakers can configure NTP server automatically using DHCP (option 42 for the server address). You can also assign time zone using DHCP.

We recommend that you always use Multicast for your AXIS Audio Manager Edge site as it will lower the load on your network. Your network needs Multicast when your site contains more than 20 devices. However, if your site contains 20 or fewer devices and you want to use Unicast, then go to **System settings** > **Connectivity** and select **Unicast**.

Ports for AXIS Audio Manager Edge:

Port	Usage	Comment
80	HTTP	Default, can be changed by user
332	RTSPS	
443	HTTPS	Default, can be changed by user
554	RTSP	
1883	External MQTT	Default, can be changed by user
1900	UpnP UDP	
3478	SIP STUN/TURN	Optional
4000, 4002, ...	SIP RTP	One +2 step per call

4001, 4003, ...	SIP RTCP	One +2 step per call
4242	Site internal MQTT	
5015	Clock	
5060	SIP	Default, can be changed by user
5061	SIP TLS	Default, can be changed by user
5353	Bonjour discovery	
15397	Load distribution	Data transfer between devices
20000, 20002, ...	RTP	One +2 step per source in the system
20001, 20003, ...	RTCP	One +2 step per source in the system

Other ports used by the device:

Port	Usage	Comment
22	SSH	
123	NTP UDP	
161, 162	SNMP	Traps
10161, 10162	Secure SNMP	Traps

Manage devices

1. Go to **Devices**.
2. To add devices , click **+ Add**.
3. To delete a device, click ••• > **Delete device from site**.

Note

We recommend that you factory default the removed device before using it in any other system.

4. To rename a device, click ••• > **Rename device**.
5. If you find it difficult to tell the devices apart and want to identify a specific device, you can make it play a test signal by clicking ••• > **Identify device**.

Set up physical zones

A physical zone is a virtual representation of a location where your devices are located. Devices that are located in the same area can be grouped together virtually by adding them to the same physical zone in AXIS Audio Manager Edge. This makes it possible for you to control a group of devices simultaneously.

Let's say you have several speakers in the same room. As the sound from these devices are heard in the same area, you want them to play the same content. Therefore, you create a physical zone in AXIS Audio Manager Edge and add the speakers in the room to it. Now you can easily make all the speakers play the same music simultaneously by simply sending your music to the corresponding physical zone in AXIS Audio Manager Edge.

Good to know:

- You can create multiple physical zones and populate them with many devices. However, a device can only belong to one physical zone.
- An audio device must belong to a physical zone in order to receive scheduled content.
- Unassigned devices can't receive scheduled content, but they can still be target for paging or used as intermediary devices.
- You can play the same content in multiple physical zones at the same time, and volume can be controlled for each zone individually.

1. Go to **Physical zones**.
2. To create a new physical zone, click **+ Create**
   We recommend that you name the zone according to the location it represents.

Schedule content

Content scheduling is about defining what content to play, where to play it and when to play it.

What to play:
- Announcements
- Advertisements
- Music

Where to play:
- In one or several zones

When to play:
- Relative to defined opening hours
- According to custom schedules or at fixed points in time

If you want to set up paging, see *Paging, on page 14*.

Set the opening hours

This feature is used for relative scheduling and displaying opening hours throughout the system. Any schedule that is set relative to the opening hours will automatically adapt to the opening hours schedule.

Example:
Notify the customers on a daily basis that the shop is closing in 15 minutes. Therefore, you record a message saying "the shop closes in 15 minutes" and schedule a notification to play the message relative to your shop's closing hours. If you ever change the closing hours, you won't need to adjust the notification schedule.

1. Go to **Opening hours**.
2. Select what days of the week to include.
3. Select the time interval for the each day.
4. Click **Save**.

Schedule announcements

Choose when to play pre-recorded announcements.

Example:
Notify the customers every day that the shop is closing in 15 minutes.

Play a certain pre-recorded message at 11:30 and 13:30 every Monday, Wednesday and Friday.

1. Go to **Announcements**.
2. Choose what to play:
   2.1. Go to **Playlists** and upload clips.
   For information about supported file formats, see *Audio files, on page 27*.
3. Choose where to play your announcements:
   3.1. Go to **Schedules**.
   3.2. Select physical zones.
4. Choose when to play your announcements:
   4.1. Click **+ Create schedule**.
   4.2. Name the schedule and click **Create**.
   4.3. To add an event, click **+ Event** and select **Single** or **Interval**.
   4.4. Enter the details and click **Save**.

5. Make sure that your schedule is enabled:
   5.1. Go to **Announcements** > **Schedules**.
   5.2. If the schedule is disabled, click ⋮ > **Enable schedule**.

Schedule advertisements

Advertisement scheduling can be used for any content that you want to play repeatedly for a certain time period.

Example:
Play advertisements in a shop.

1. Go to **Advertisements**.
2. Choose what to play:
   2.1. Go to **Playlists**.
   2.2. Upload clips to the library.
   For information about supported file formats, see *Audio files, on page 27*.
   2.3. Create playlists and populate them with clips from the library.
3. Choose where to play your advertisements:
   3.1. Go to **Schedules** and select physical zones.
4. Choose when to play your advertisements:
   4.1. Go to **Schedules**.
   4.2. Click **+ Create schedule**.
   4.3. Name the schedule and click **Create**.
   4.4. Click **+ Event** and select **Single** or **Interval**.
   4.5. Fill in the details and click **Save**.
5. Make sure that your schedule is enabled:
   5.1. Go to **Advertisements** > **Schedules**.
   5.2. If the schedule is disabled, click ⋮ > **Enable schedule**.

Schedule music

You can play the background music of your choice and schedule when to play it.

1. Go to **Music**.
2. Add music content:
   – Go to **Playlists** to add clips.
   – Go to **Sources** to add a stream, ACAP or line-in. You can add multiple sources.
   For information about supported streaming codecs, see *Streaming codecs, on page 27*.
3. Create a music schedule:
   3.1. Go to **Schedules**.
   3.2. Click **+ Create schedule**.
   3.3. Name the schedule, select a type and click **Create**.
   3.4. Select scheduling time.

Note

We recommend that you use the opening hours schedule when you want to play music during your normal hours of operation. You can use offset times to start the music a little before opening and after closing.

3.5. Under **Sources**, select a source.

Note

You can add multiple sources.

Drag the sources in the list to change the order.

3.6. Select a behavior for the schedule:

- **Play first source automatically**: Music will start to play automatically at the beginning of the scheduled time interval.
- **Wait for manual selection**: Music will only play if you actively start it. The music can only be started within the scheduled hours.

3.1. Click **Save**.

3.2. Go to **Schedules** and make sure the schedule is enabled.

4. Switch or stop music that is playing:

4.1. To switch source, go to **Playback** > **Music control** and select a source in the drop-down menu.

- If you have an AXIS C8310 Volume Controller, you can press the number buttons to switch source.
- You can also switch source using the AXIS Audio Manager mobile app.

4.1. To stop playing, click ☐.
To resume playing, select a source in the drop-down menu.

Paging

You can send messages from a SIP mic, VoIP phone, video management software (VMS) and other sources. The messages can be sent to physical zones as well as individual speakers. For instance if you want to use AXIS Audio Manager Edge together with a VMS such as AXIS Camera Station or AXIS Companion, then you need to set up a paging recipient.

You can page messages from your smartphone, using the AXIS Audio Manager mobile app. The app is available on Google Play and App Store. If you are not using AXIS Audio Manager Center, you need a local Wi-Fi connection to the audio system.

Example:
I am working at the cash register and there are many customers waiting in line. I want to make a live call-out with a AXIS C6110 Paging Console to ask someone sitting in the back office to come to the register. In this case I can call the individual speaker at the back office.

Set up a paging recipient

Create a paging recipient for every button on your microphone or corresponding item in your video management software:

1. Go to **Paging recipients**.
2. Click **+ Create**:
3. Name your recipient.
4. Select a communication type and protocol:
   - **One-way**
     - **External RTP** — for using an RTP stream from a third-party device.
     - **Line-in** — for using a device with line-in.
     - **SIP** — for live call-outs from AXIS C6110 Network Paging Console or any other SIP-compatible device.
     - **VAPIX** — for live call-outs from a video management system or AXIS C6110 Network Paging Console using the VAPIX protocol.
   - **Two-way**
     - **SIP** — for live two-way communication through a SIP-compatible device, such as AXIS C6110 Network Paging Console.
     - **VAPIX** — for live two-way communication through a video management system using the VAPIX protocol.
   - **VAPIX media clip** — for playing pre-recorded clips located in the audio devices, from a video management system or AXIS C6110 Network Paging Console.

   Note

   A device that is already used for line-in or two-way will not appear in the list of available devices when you set up a new paging recipient with line-in or two-way.
5. For two-way, VAPIX media clips and one-way line-in, select a device.

Note

When using VAPIX media clip, make sure to select the intermediary device where the clip is stored.

6. Select the physical zones and devices that will play the sound.
7. Click **Create**.
8. Configure your source device (microphone button or video management system) for paging to the zone, or playback of a media clip using the intermediary device as target address.

Paging with RTP stream

To page from a third-party device that provides an RTP stream:

1. Go to **Paging recipients**.
2. Click **+ Create**.
3. Name the recipient.
4. Select **One-way** and **External RTP**
5. Click **Create**.
6. Click **Configure source**.
7. Enter a multicast address and a port number.
8. Click **Save**.
9. Add the targeted physical zones and devices.

Supported formats:

Payload type (PT)	Name	No of channels	Clock rate (Hz)
0	PCMU	1	8000
8	PCMA	1	8000
10	L16	2	44100
11	L16	1	44100

Paging via line-in

You can use a device with line-in for paging. This is useful, for instance, when you connect a device with a button and a mic to an audio bridge.

1. Go to **Paging recipients**.
2. Click **+ Create** and select **Line-in**.
3. Click **Select device** and select the device with line-in connector.
   If your line-in device does not appear:
   3.1. Go to **Physical zones**.
   3.2. Click > **Advanced device settings**.
   3.3. Go to **Audio > Device settings**.
   3.4. Set input type to **Line**.
4. Select the zones and devices that the paging sound should be sent to.
5. Click the **Events** link.
6. Click **Add rule** to add a new rule.
7. Under **Conditions**, select **Digital input is active**.
8. Under **Actions**, select **Activate Line-in while the rule is active**.
   The button on your device that is connected to the I/O port will now activate paging while it is pressed down, and inactivates when released.

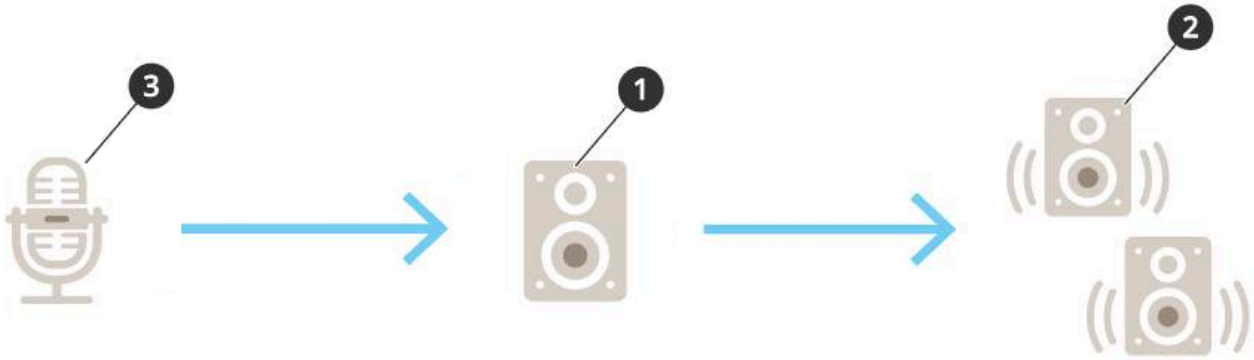
SIP paging

Setting up a SIP device is similar to when you use VAPIX, but using the SIP protocol instead. The intermediary device will receive audio from the external source, and assign target zones for the playback. You need to configure the SIP parameters in the local settings of the intermediary device.

Next, you configure the SIP source device itself to either send the SIP call directly to the assigned intermediary device, or through a PBX system if you have one.

For information and videos about how to make this configuration for AXIS C6110 Network Paging Console, visit the *AXIS C6110 Network Paging Console user manual*.

VAPIX one-way



1. An intermediary device is automatically selected.
2. Configure the zones and devices to target.
3. Configure your source. This could be an IP microphone or a video management software.
   Make the configuration from your device's webpage or from the video management software.
   Set the intermediary device from step 1 as the destination address in the IP microphone or software.

VAPIX two-way

1. Configure your 2N SIP Mic:
   1.1. Go to the device interface for your 2N SIP Mic.
   The device interface is reached by entering the IP address in a web browser.
   1.2. Go to **Buttons**.
   1.3. Click the pen icon for a button.
   1.4. Turn on **Button active**.
   1.5. Type a name.
   1.6. Under **Actions**, select **Outgoing call**.
   1.7. Under **Destination type**, select **VAPIX Destination**.
   1.8. Under **Address**, type the IP address of the talkback device.
   1.9. Under **Port**, enter 80 for HTTP and 443 for HTTPS.
   1.10. Enter a username and password for the talkback device.
   1.11. Under **Audio codec**, select **G711u**.
   1.12. Under **Left button function**, select how the talkback function is activated by the button on the 2N SIP Mic:
   - **Mute** — Talkback will start when you press the configured button, and the left button will toggle between muting and unmuting the microphone. Sound will still be heard from the speaker of the 2N SIP Mic.
   - **Press and talk** — Talkback is active while you hold the left button pressed.

   1.1. Click **Change**.
2. Configure the talkback device:
   2.1. Go to **Physical zones**.

2.2. Open the context menu for your speaker and select **Advanced device settings**.
The device interface opens up.

2.3. Go to **Audio > Device settings** and turn on **Enabe input**.

2.4. If needed, adjust the gain levels.

2.5. Go to **System > Plain config**.

2.6. Under **Select group**, select **AudioSource**.

2.7. Under **Audio encoding**, select **G711u**.

2.8. Click **Save**.

2.9. To start paging, press the configured button on the 2N SIP Mic.

Note

To optimize sound properties and minimize noise for your use case and environment, go to the device webpage and adjust the input gain.

If you want to use a device with line-in as two-way device, then you need to turn on line-in for the device. For information about how to turn on line-in for the device, see *Paging via line-in, on page 15*.

3. To make your two-way device visible on the dashboard in AXIS Audio Manager Edge:

3.1. Go to **Paging recipients**.

3.2. Click **+ Create**.

3.3. Name the recipient.

3.4. Select **Two-way** and **VAPIX**.

3.5. Click **Create**.

3.6. Click **Select device**.

3.7. Click **Select** to add your two-way device.

VAPIX media clip

Use this setting for playing media clips.

1. Open the device webpage of your intermediary device:
   – Enter the following address in a web browser:
   `https://###.##.##.##` (where ###.##.##.## is the IP address of your intermediary device)
2. On the device webpage, click **Audio clips** to reach the library where you can manage clips.

Note

The clips must be stored on your intermediary device. This is not necessarily the same speaker as the leader in your site.

For information about supported file formats, see *Audio files, on page 27*.

Use visual profiles

Audio alone may not be sufficient to capture attention in noisy environments or for individuals with hearing impairments. To enhance communication, you can supplement audio messages with visual signals such as strobe light and text display.

Visual signals are used to reinforce audio messages. These signals are defined through Visual Profiles, which let you configure how text and strobe lights behave during announcements and paging. You can create multiple visual profiles for different message types—for example, a subtle pattern for routine announcements and a more attention-grabbing pattern for emergency alerts that need to capture immediate attention.

As an administrator, you can configure visual profiles under **Visual profiles**. Each profile includes the following settings:

- Text settings:
  - Color
  - Background color
  - Text layout (one-, two- or three-line)
  - Scroll speed
  - Duration
  - Default text message
- Light settings:
  - Light pattern
  - Color
  - Speed
  - Brightness
  - Duration

The default visual profile can be overridden for individual events. You can select a different visual profile, customize the text message, or both—depending on the situation.

Adjust volumes

Volume configuration and control is divided into two parts:

- **Sound calibration** is used by the installer to configure the audio system.
- **Music volumes** is used by the regular users that operates the system.

The volumes for paging, announcements and advertisements are expected to be calibrated and volume controls for this are not available to regular users.

Volume for background music is available to regular users (by access control), and users at a site can control the volume for background music in the physical zones.

You can adjust volumes from your smartphone, using the AXIS Audio Manager mobile app. The app is available on Google Play and App Store. It requires a local Wi-Fi connection to the audio system.

Set the volume for physical zones

You can adjust the background music volumes for your physical zones:

1. Go to **Music volumes**.
2. Adjust the music volume for your physical zones.

Calibrate volume

You can calibrate the volumes for different content types and different locations.

Example:
You want the speaker located by the cash register to play music at a lower volume than the other speakers in the store.

Example:
You want to play soft and discrete background music at a low volume, but announcements to be loud and clear.

1. Go to **Sound calibration** > **Volume**.
2. Go to **Default audio site calibration** to set the default volume for the different content types.
3. If you want the volume to change back to the same level every midnight, turn on **Reset to default music volume at midnight**. This will reset the volume to the level selected for **Default music volume**.
4. Adjust the volumes for a specific physical zone:
   4.1. Click the physical zone.
   4.2. Turn on **Override default audio site calibration**.
   If **Override default site calibration** is turned off, the default volume settings will be used instead.
   4.3. Adjust the volumes for the different content types.
5. Calibrate the volumes for an individual device:
   5.1. Go to **Normalization**.
   5.2. Click the physical zone that contains the device.
   5.3. Adjust the volume for the device.

Mute a site

Create an action rule that will mute the entire site when certain conditions are fulfilled:

1. Go to **System settings** > **Leader settings** and click **Go to device settings**.
   The device interface opens.
2. Go to **Management** > **Action rules** and click **Add...**

3. Under **General**:
   3.1. Check the **Enable rule** checkbox.
   3.2. Name the rule, for instance to "Mute my site".
4. Under **Condition**:
   4.1. In the first **Trigger** dropbox, select **Input signal**.
   4.2. In the second **Trigger** dropbox, select the trigger source that you want:
   - **I/O** — if your device is equipped with a physical trigger.
   - **Virtual input** — if you want to configure a custom trigger.
     Use the following HTTP requests to activate and deactivate the virtual input:
     - `http://<device IP>/axis-cgi/virtualinput/activate.cgi?schemaversion=1&port=1`
     - `http://<device IP>/axis-cgi/virtualinput/deactivate.cgi?schemaversion=1&port=1`
     - The port number in the URL should reflect the command. For instance, if you choose to trigger on virtual input 2, then change the last part of the URL to `&port=2`.
5. Select a schedule if you want the trigger to apply only at certain times.
6. Optionally, set additional conditions of the trigger.
7. Under **Actions** > **Type**, select **Mute Audio Site**.
8. Select **Mute while the rule is active**.

Note

This overrides the volumes set in **Music volumes** in AXIS Audio Manager Edge.

9. To unmute the sound again:
   - When the condition that triggers the muting is not fulfilled anymore, the sound will be automatically unmuted.
   - To unmute manually:
     9.1. From the device interface, go to **Management** > **Action rules** and click the rule.
     9.2. Deactivate the rule by clearing the **Enable rule** checkbox.

Adjust sound properties

Normalize sound levels

If the devices and sources in your site have different gains, they will play with different loudness.

To unify the loudness, go to **Sound calibration** > **Normalization** and adjust the gains.

Example:
If you have speakers mounted at different heights, you can make them sound equally loud at ground level.

Example:
Avoid loudness differences when switching between sources, for instance a web stream radio and a line-in from a smartphone

Set sound profiles

Sound profiles change the way content sounds by modifying frequency response, perceived loudness etc.

1. Go to **Sound calibration** > **Sound profile**.
2. Go to **Default sound profile**, **Paging recipients** or **Music sources** to select profiles:
   - **Speech (clarity)** — Optimized for speech intelligibility. Recommended for security messages and live announcements.
   - **Speech (neutral)** — Optimized for natural sounding voices. Recommended for information messages and advertisements.
   - **Music** - Optimized for music.
   - **None** - No optimizations. Flat frequency response. Recommended for calibration and testing purposes, or when the input already have desired properties.
   - **Use default** — This option is available when you set the profiles for a paging recipient or music source. Selecting this option will use the default sound profile instead.

Under **Music sources**, the **Music player** profile will apply to web streams and uploaded content.

Set latency

Latency is the time delay between audio input and audio output. Different sources have different latency needs.

1. Go to **Sound calibration** > **Latency**.
2. Go to **Default latency**, **Paging recipients** or **Music sources** to select latencies:
   - **Normal** — Low system resources usage and more resilient against network issues. Recommended for non real-time critical application such as music, prerecorded ads and announcements.
   - **Low** — Recommended for talk back applications and paging where the person talking is located in an area apart from the loudspeakers.
   - **Ultra low** — Recommended for live paging, i.e. where the person talking is located in the same area as the loudspeakers. Best effort from a sync and resilience perspective. Heavy system usage.
   - **Use default** — This option is available when you set the latencies for a paging recipient or music source. Selecting this option will use the default latency instead.

Under **Music sources**, the **Music player** latency will apply to web streams and uploaded content.

Use an accessory

To find your connected accessories, go to **Accessories**.

AXIS C8310 Volume Controller

The numbered buttons on the AXIS C8310 Volume Controller are used for selecting music source. The selected music source will play in all the targeted zones. The mute and volume buttons only affect the physical zone that the AXIS C8310 Volume Controller is assigned to.

You can also use the buttons for triggering actions based on events. You can do this by setting up a rule in the web interface of your host device. You can configure a button to both trigger an action and also select music source or adjust the volume at the same time. To set up a rule for a button, see *AXIS C8310 Volume Controller user manual*.

Before you start:

- Connect your AXIS C8310 Volume Controller to the I/O port of any device that belongs to your site. The host device must have AXIS OS version 11.6 or later.
- Make sure you have created one or several music sources. See *Schedule music, on page 12*.

Note

You can add many sources, but only the first three will be used by the AXIS C8310 Volume Controller. Source 1, 2 and 3 will be associated with the buttons 1, 2 and 3 on your AXIS C8310.

- Make sure you have created one or more physical zones and configured them to receive music.

1. Assign your AXIS C8310 Volume Controller to a physical zone.
   1.1. Go to **Accessories**.
   1.2. Click **Connect...** > **Connect and assign** for your AXIS C8310 Volume Controller.

   Note

   The physical zone that the host device belongs to is pre-selected for volume control. You can select a different zone for controlling the volume with your AXIS C8310 Volume Controller.

2. If you want to deactivate volume control, click ••• > **Unassign volume control**.
3. If you want to deactivate source selection, click ••• > **Unassign source control**.

Manage content

Priority order of your content

You can see the overall priority order of the different content type groups. The priority decides what content will sound if two or more content types are playing at the same time.

1. To see the priority order, go to **System settings** > **Content priority**.
2. To change the priority between paging recipients, go to **Paging recipients** and change the priority by drag-and-drop.

Set allowed content

You can set what type of content that is available for scheduling.

1. Go to **System settings** > **Allowed content**.
2. Select the content that should be available for scheduling

Manage users

If you are an administrator, you can give other users access to the site, and grant them one of the following privileges:

- **Administrator** – Full access.
- **Operator** – Schedule content, set opening hours, manage visual profiles, control music playback and view dashboard.
- **Viewer** – Control music playback and view dashboard.

Example:
You manage a store and decide what music and other types of content to play. You want your staff in the store to be able to lower or raise the volume during opening hours, but you don't want them to be able to change the content that is played. Therefore, you add them with **Viewer** privileges.

1. Go to **System settings** > **General settings** > **Accounts** and click **Go to account settings**..
   The web interface for the leader device is opened.
2. Click **+Add account** and enter the details.
   You can assign them to one or several groups.
3. Click ⋮ if you want to edit or delete an account.

System settings

To set the proxy settings, network configurations and calendar settings for your audio site:

1. Go to **System settings**.

To reach the device interface of your leader device:

1. Go to **System settings** > **Leader settings**.
2. Click **Go to device settings**.

Change leader device

1. Go to **System settings** > **Leader settings**.
2. Expand **Change leader device**.
3. Select a new leader device and click **Change leader**.
4. In the **Authenticate** dialog, enter username and password for the device and click **OK**.
5. On the **Leader device has been changed** screen, you have two options:
   - Click **Roll back** if you changed your mind and want to use the previous device as leader again.
   - Click **Go to leader** to go to the **Welcome to the new leader** screen, where you can troubleshoot the new leader device.
6. On the **Welcome to the new leader** screen, you have two options:
   - Click **Roll back** if you changed your mind and want to use the previous device as leader again.
   - Click **Confirm** to open AXIS Audio Manager Edge with the new leader device.

Export site configuration

You can export your AXIS Audio Manager Edge site configuration to a file. You can then import this file to restore your site, or use it to set up your site on a new device.

To export or import your site configuration, go to **System settings** > **Export and import**.

When you open AXIS Audio Manager Edge for a factory-defaulted device, you can select **Import from file** to set up your site on the new device.

The following device parameters are not exported:

- ACAPs
- Account passwords
- AXIS Audio Manger Center integration (O3C)
- Gain
- Line-in settings
- Media clips
- Normalization for physical zones
- SIP

API

Under **System settings > API builder**, you find a built-in tool that assists in building API requests. This tool simplifies the process of crafting the required JSON by helping you select the correct IDs and avoiding common errors such as typos, missing parentheses, or incorrect syntax.

For more information about API, see *AXIS Audio Manager Edge API*.

Learn more

Audio files

An audio file is recorded with a certain gain. If your audio files have been created with different gains, then the loudness will differ when the files are played. Make sure that you use clips that have the same gain.

Supported file formats:

- **.mp3** (mpeg1 container with audio layer III codec)
- **.wav** (wav container with raw data)
- **.opus** (ogg container with opus codec)
- **.ogg** (ogg container with vorbis codec)
- **.aac** (advanced audio coding)
- **.m4a** (mp4 with audio only)

Streaming codecs

Supported codecs:

- Mp3
- MPEG-2 part III
- Ogg
- Opus
- WAVE
- AAC
- M4A

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