

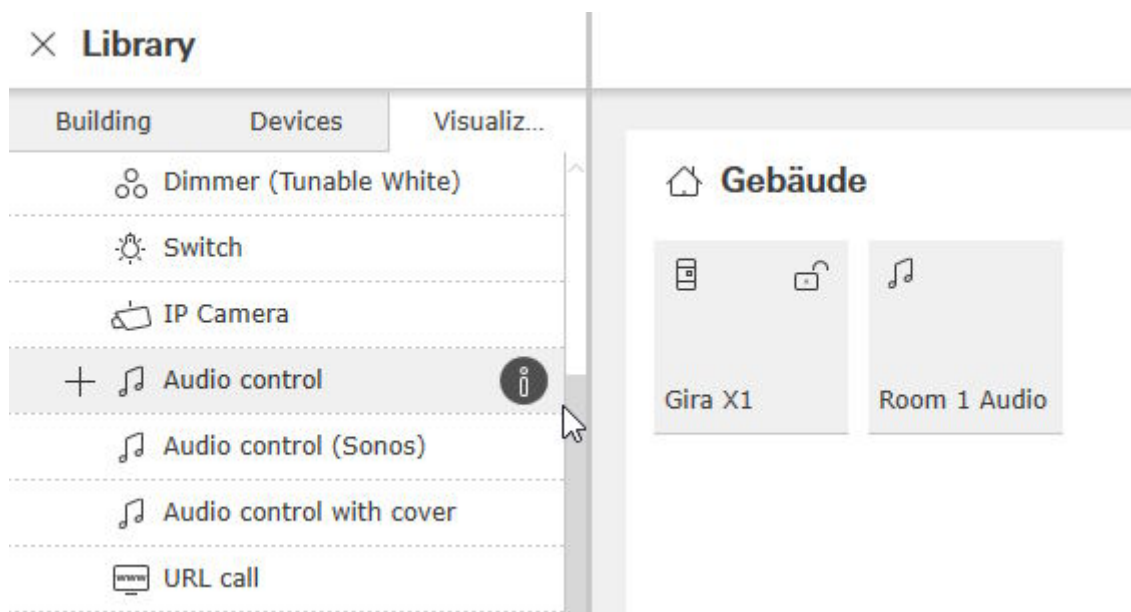
Gira X1 Audio control setup with trivum

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1. Using the Audio Control function and KNX

If you want direct audio control without using the [trivum WebUI](#), go into the Gira Project Assistant, and pull an element "Audio control" into your project.



You need one element per Room, so name the first one "Room 1 Audio".

1.1. Define and link KNX group addresses to control audio in this room

This is a table with example group addresses. Adjust them as you like.

function	send address	read address	data type
Playback	"3/1/101"	"3/1/102"	1 bit
Volume	"3/1/103", configure data type: 5.001	"3/1/104"	8 bit
Mute	"3/1/105"	"3/1/106"	1 bit
Previous track	"3/1/107"	-	1 bit
Next track	"3/1/108"	-	1 bit
Previous playlist	"3/1/109", initial value default "0", keep value	-	1 bit
Next playlist	"3/1/109", initial value default "1", keep value	-	1 bit

The screenshot shows a KNX control interface. On the left, under 'Gebäude', there are two room cards: 'Gira X1' and 'Room 1 Audio'. 'Room 1 Audio' is highlighted in green. On the right, the 'Data points' panel lists several controls:

- Playback:** 3/1/101 3/1/102 Playback
- Volume:** 3/1/103 3/1/104 Volume
- Mute:** 3/1/105 3/1/106 Mute
- Previous track:** 3/1/107 - prevtrack
- Next track:** 3/1/108 - nexttrack

1.2. Define KNX group addresses to display status sent by trivum.

Fill in only 'read address':

Track	-	"3/1/111", configure data type: 16.001	14-bytes text
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Album	-	"3/1/112", configure data type: 16.001	14-bytes text
Artist	-	"3/1/113", configure data type: 16.001	14-bytes text
Name of playlist	-	"3/1/114", configure data type: 16.001	14-bytes text

Note: field "Playlist" (without name) is unused, and kept empty.

1.3. Enter the web setup of the trivum device.

Go into:

configuration / zones / first zone / KNX bindings

1.3.1. fill in the control fields

function	trivum field	value
Playback	Zone on/off	"3/1/101"
Mute	Zone or group mute	"3/1/105"
Volume	Zone or group volume	"3/1/103"
Previous/Next playlist	Play next source	"3/1/109"
Next track	Key '>'	"3/1/108"
Previous track	Key '<'	"3/1/107"



1. KNX objects to control status of 'Room 1'

Read
1 bit
0/1

Zone on/off

The default on action after system restart is to use the first KNX/HTTP source defined further below.

3/1/101



How should incoming telegram be interpreted

1:on / 0:off >

Read
1 bit
0/1

Zone or Group Mute

0=unmute 1=mute

3/1/105



Read
1 bit
0/1

Zone Individual Mute

0=unmute 1=mute

3/1/106



How should incoming telegram be interpreted

1:mute / 0:unmute >

2. KNX objects to control zone or group volume of 'Room 1'

If grouping is active then the group volume is changed

Read
4 bit
dim

Zone or Group Volume

Behaves like a dimmer

3/1/102



Read
1 byte
0-255

Zone or Group Volume

0=0% 255=100%

3/1/103



Read
1 bit
0/1

Zone or Group Volume Step 1

0=down 1=up

3/1/104



1.3.2. fill in the numeric status fields

function	trivum field	value
Playback	Send status	"3/1/102"
Mute	Send zone or group mute	"3/1/106"
Volume	Send volume	"3/1/104"

1.3.3. configure text status fields

to do so, go to:

automation / knx / displays / add display

- change assigned zone: first zone
- change display type: display with 4 lines

Settings for the lines:

line	group address	content when streaming is active
1	"3/1/111"	Title of track
2	"3/1/112"	Album of track
3	"3/1/113"	Artist of track
4	"3/1/114"	Current streaming service/source

1.3.4. configure the zone to react to Next/Previous playlist

go into "Define the KNX/HTTP source list". Fill in several actions, like

- play a web radio station favorite
- play a playlist favorite
- play a line input

When this is done, the field "Play next source" will toggle between these sources.

1.3.5. Setup KNX communication

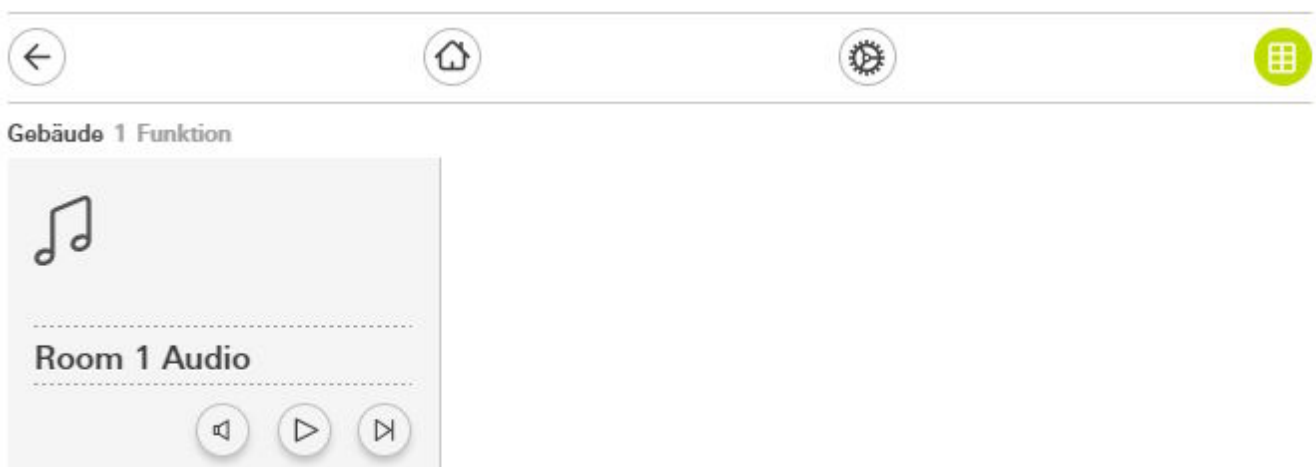
if you have no KNX IP router, you can connect from trivium directly to Gira X1 as IP interface.

1.4. Go back to the Gira Project Assistant

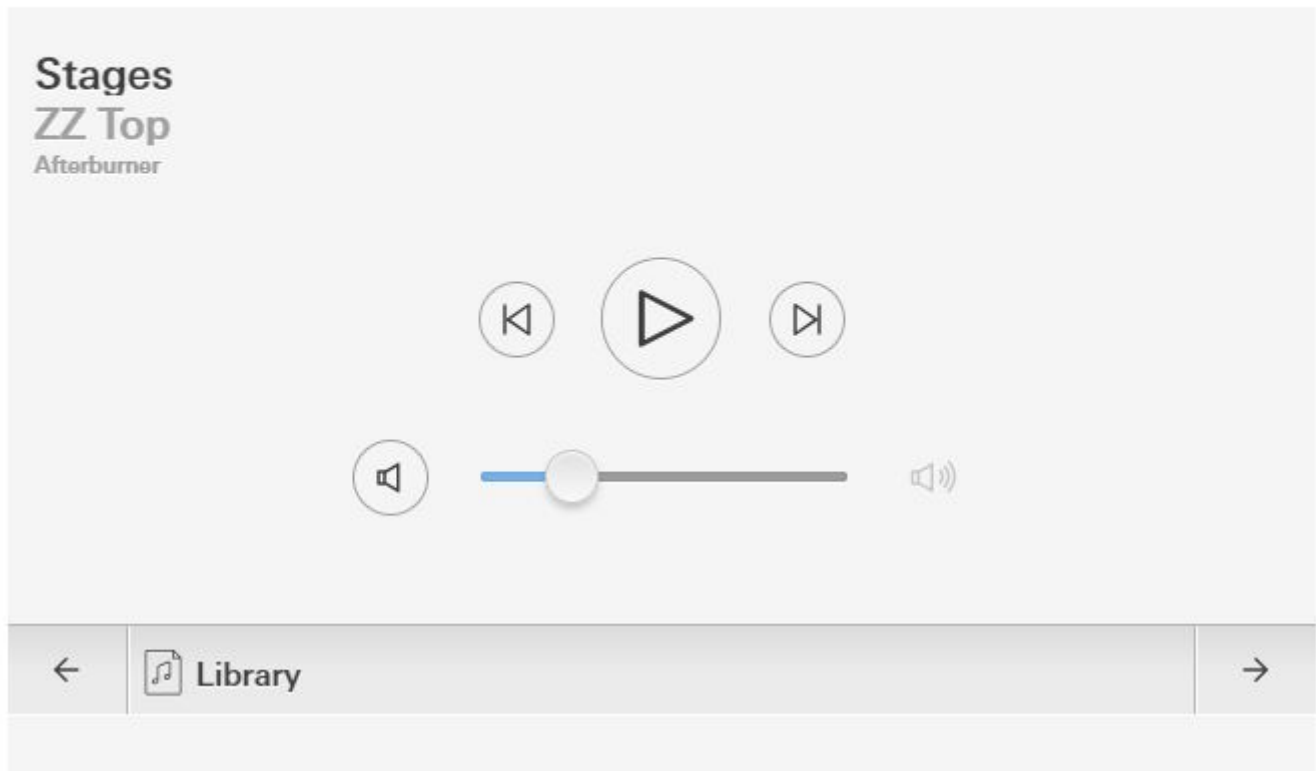
and commission your project to the X1.

1.5. Run the Gira Smart Home App

You will find the new function in the overview:



Select it to get the detail view:



Now you can:

- press Play/Pause in the middle to switch the zone on or off
- if a NAS album or playlist is playing, skip to previous or next track by the buttons next to that
- toggle through the zone sources with the arrows ← and → at the bottom.

Note that directly after a restart of the trivum device, just switching the zone on may not play sound, as no music is selected. You then have to touch "→" once, to select a zone source.

2. Using an URL call to a trivum music server WebUI

This is the fastest way to get full music control over all zones.

In the Gira Project Assistant, drag "URL call" into your project.

Under Name, type for example "trivum Multiroom".

Under Parameter / URL, enter <http://trivumip>, e.g. <http://192.168.178.100>

Then open the Gira Smart Home App. Enter the new URL call object, and you find the trivum WebUI.

trivum Multiroom



 Room 1

8:47 - 15.9.2023



Tuner

Stream

LineIn 1

