



xxter audio manual

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xxter audio integration

With xxter you can integrate your sound system into your installation. This allows you to control your sound system from the xxter app, include your speakers in scenarios and schedulers, add audio commands to automations and even integrate it completely into the KNX installation, and for instance to control your speakers with a KNX switch on the wall.

You can integrate xxter completely with audio systems from Sonos or from BluOS (BlueSound, NAD). For older sound systems, it is also possible to connect using uPnP. However, keep in mind that this is a deprecated feature, that has limited possibilities.

Linking with your Audio system




Login to the xxter controller and go to the *Settings - Protocols* menu. Here, enable the audio protocol of the speaker you are using, and press *Apply*.

Settings - protocols



uPnP

uPnP: Disabled 
Apply

Sonos

Sonos: Enabled 
Send on KNX on initialisation: Disabled 
Household: All 
Apply
Link your Sonos account Relink

BluOS

BluOS: Disabled 
Send on KNX on initialisation: Disabled 
Apply

Now the xxter controller will actively search for the speakers on your network. On the *Status* page, you will see all the speakers that have been found. It can take a couple of minutes before all the speakers have been found, especially if they are wirelessly connected. Detection can also be improved by playing something on the speaker, so it will come out of stand-by mode.

Sonos/BluOS devices

Support
Development

Rescan for devices

After your speakers are detected, press the *Load configuration* button on the top left corner, to synchronize the configuration with the cloud. This will make the speakers available to add in the visualization and the project.

In case you are using a Sonos system with enabled additional security, please see the last chapter on authentication.



Load configuration

Controlling audio from the app

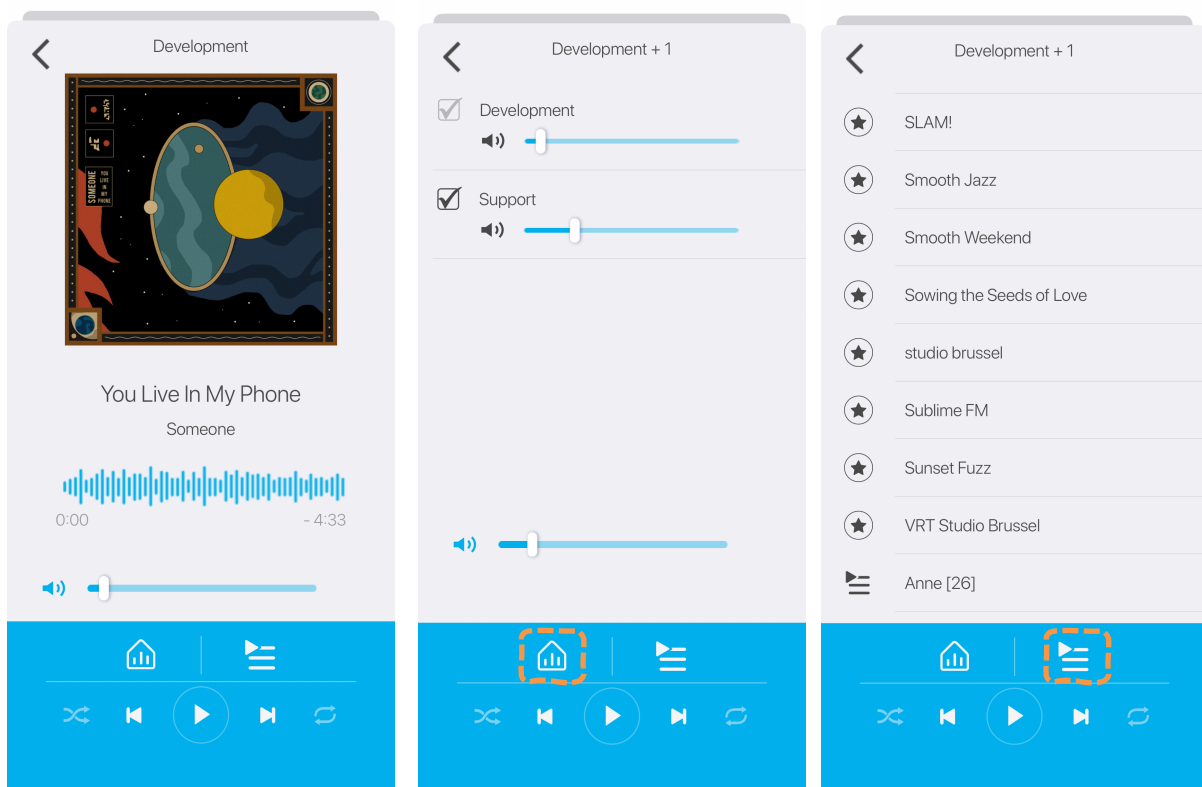
Now your speakers are synchronized with the cloud, you can login to *My xxter* to add them to your visualization. This functionality is not available for uPnP.

Select a Profile and go to the page of the profile where you want to add the speaker. Go to Add element and add an 'Audio control'. Next choose which speaker you want to control.

The image shows two side-by-side screenshots from a web interface. The left screenshot, titled 'Add element', shows a form with a 'Type' dropdown menu set to 'Audio control' and an 'Add' button below it. The right screenshot, titled 'Audio control', shows configuration options for an 'Audio control' element. It includes a dropdown for 'Audio control' set to 'Development', a 'Visibility' dropdown set to 'Always visible', and a 'Controllable' dropdown set to 'Always enabled'. There is a red 'X' icon on the left and an 'Apply changes' button on the right.

It is also possible to add the image of the current album cover to the visualization, in the same manner, by adding an 'Album cover' element.

Next, load the profile in the xxter app on your mobile device. In the visualization you will always have quick commands directly available, and from this element, you can open the complete controller.



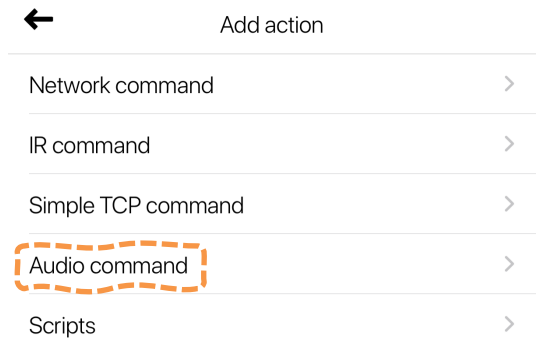
By clicking on the speaker icon on the left, you can (un)group speakers and set their individual volume. By clicking on the preset icon on the right, you can choose any of your favorites or playlists.

Adding new favorites, playlists or presets should be done through the app of the sound system you are using (i.e. Sonos or BluOS).

Audio in scenarios and schedulers

The speakers that are detected in your system, can directly be used in scenarios and schedulers. This allows you for instance to pause all music when you turn on the alarm system and leave the house, select the correct audio input for watching TV or schedule your favorite radio station to wake up.

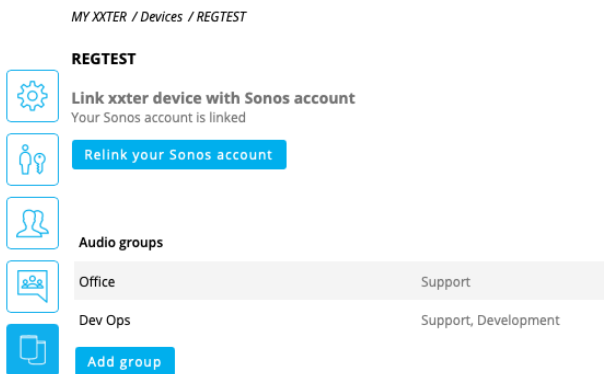
You can find all the options under the *Audio command* menu when adding an action in a scheduler or scenario.



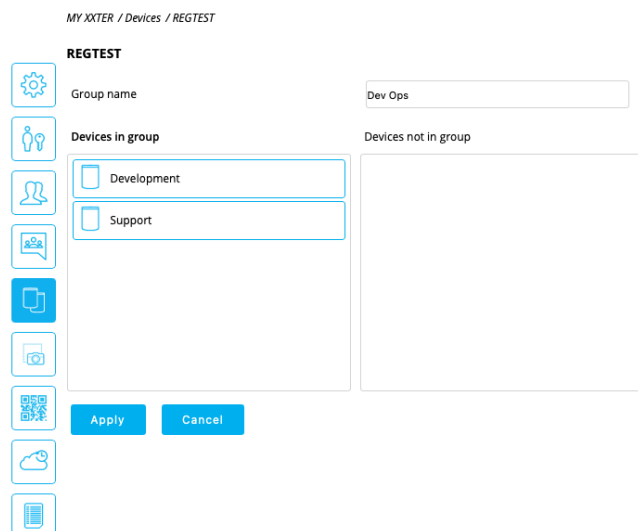
Defining speaker groups and audio clips

You can predefine certain actions for your speakers in *My xxter*, that you can also use in schedulers, scenarios or other automations. This allows you to create a scenario that groups your speakers in a certain set-up, or define an audio message that you can trigger at a certain time or situation, for instance when the doorbell rings, or to play a reminder when your car is not sufficiently loaded yet.

Login to *My xxter*, open the *Devices* menu and select your device. Next go to the *Audio settings* tab.



Here you can create groups, and select which speakers you want to include in them.



Additionally, you can define audio clips, that can be played over your speakers. You have a selection of standard tones to select from. Additionally, you can create your own audio clips, either by uploading an mp3 file or by using our text to speech functionality to create a spoken message.

Currently, audio clips are only supported on Sonos speakers.

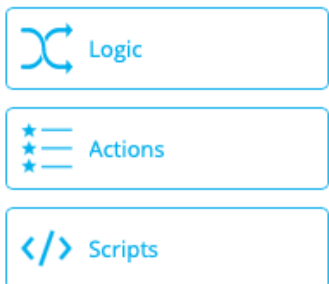
Audio clips

		Volume	
Sonos standard - 1	Chime	90	
xxter standard - 1	Ding dong	20	
xxter standard - 2	Peaceful	15	
xxter standard - 3	Simple	20	
xxter standard - 4	Classic phone	20	
xxter standard - 5	Alarmclock	90	
xxter standard - 6	Knock knock	20	
xxter standard - 7	Church bell	20	
xxter standard - 8	Zap	20	
xxter standard - 9	Whistle	20	
xxter standard - 10	Ding dong (long)	20	
xxter standard - 11	Peaceful (long)	20	
xxter standard - 12	Melody 1 (long)	20	
xxter standard - 13	Melody 2 (long)	20	
Custom - 1	<input type="text" value="Welcome to the office"/>	50	
Custom - 2	<input type="text" value="Meeting starting in room 1"/>	20	

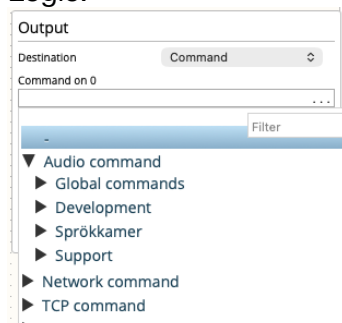
Integration audio in automations

All audio commands can of course also be used in the different automation features of xxter: logic, actions and scripts.

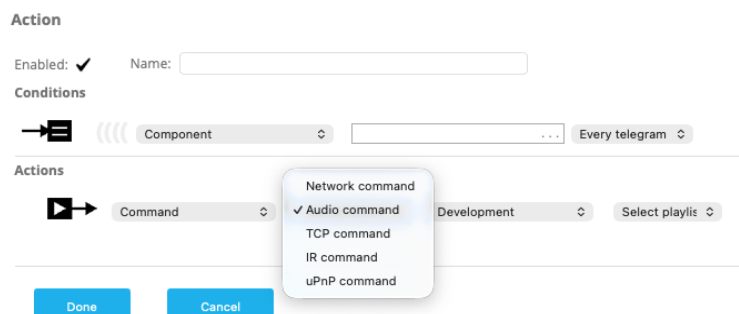
In logic, you can choose audio commands as the result of a binary output. In actions, you can choose audio commands as an action that is to be performed. In scripts, there are two functions available: one to get the current status information from a speaker, and one to set the speaker to a certain command.



Logic:



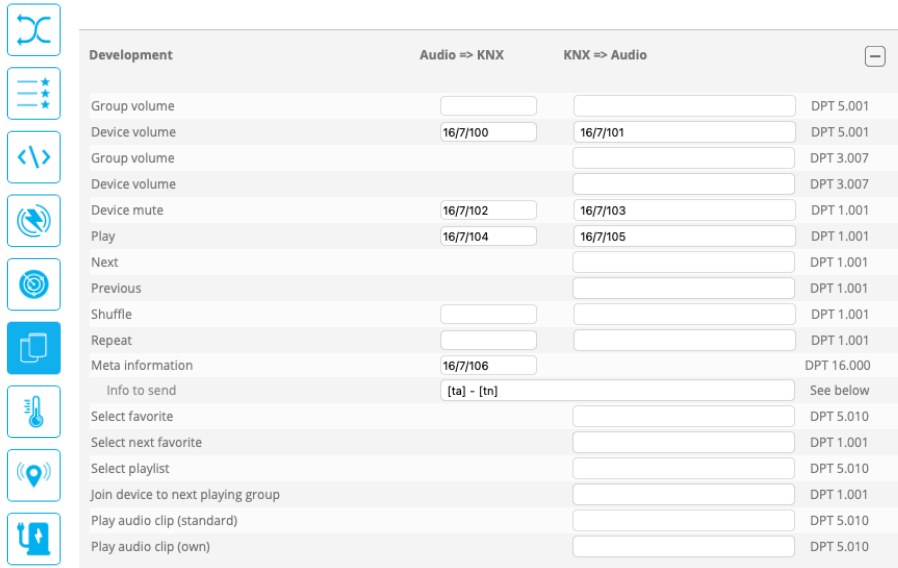
Actions:



To know more about using logic, actions and scripts, please refer to their appropriate manuals.

Audio-KNX bridging

Lastly, it is possible to directly link the speaker to KNX group addresses to bridge between the audio sound system and the KNX bus. This allows you to get status information of the speakers on the KNX bus, to for instance use as a status indication or show the name of the current track on a display, or control the speakers from the KNX bus, to control the speakers from a KNX light switch.



Development	Audio => KNX	KNX => Audio	
Group volume	<input type="text"/>	<input type="text"/>	DPT 5.001
Device volume	16/7/100	16/7/101	DPT 5.001
Group volume		<input type="text"/>	DPT 3.007
Device volume		<input type="text"/>	DPT 3.007
Device mute	16/7/102	16/7/103	DPT 1.001
Play	16/7/104	16/7/105	DPT 1.001
Next		<input type="text"/>	DPT 1.001
Previous		<input type="text"/>	DPT 1.001
Shuffle	<input type="text"/>	<input type="text"/>	DPT 1.001
Repeat	<input type="text"/>	<input type="text"/>	DPT 1.001
Meta information	16/7/106		DPT 16.000
Info to send	[ta] - [tn]		See below
Select favorite		<input type="text"/>	DPT 5.010
Select next favorite		<input type="text"/>	DPT 1.001
Select playlist		<input type="text"/>	DPT 5.010
Join device to next playing group		<input type="text"/>	DPT 1.001
Play audio clip (standard)		<input type="text"/>	DPT 5.010
Play audio clip (own)		<input type="text"/>	DPT 5.010

Speaker authentication

Some speakers might require authentication to allow them to be integrated to other platforms. Currently, there is an optional additional security feature of Sonos. If you have enabled this for your Sonos system, you can authenticate your xxter controller with your Sonos account to allow integration.

You can find the option to link your account in *My xxter* on the *Audio settings* page of your device, or if you login onto your xxter controller directly, on the *Settings – Protocols* page under *Sonos*.

Link xxter device with Sonos account

Your Sonos account is linked

[Relink your Sonos account](#)

BluOS speaker do not require authentication.