

Grandstream Networks, Inc.

GSC35xx – RTSP Music Streaming Guide



Overview

The RTSP protocol is one of two very long-running media-streaming protocols still in current use. In streaming media servers, this protocol is highly used, and we will use it to stream audio to output music.



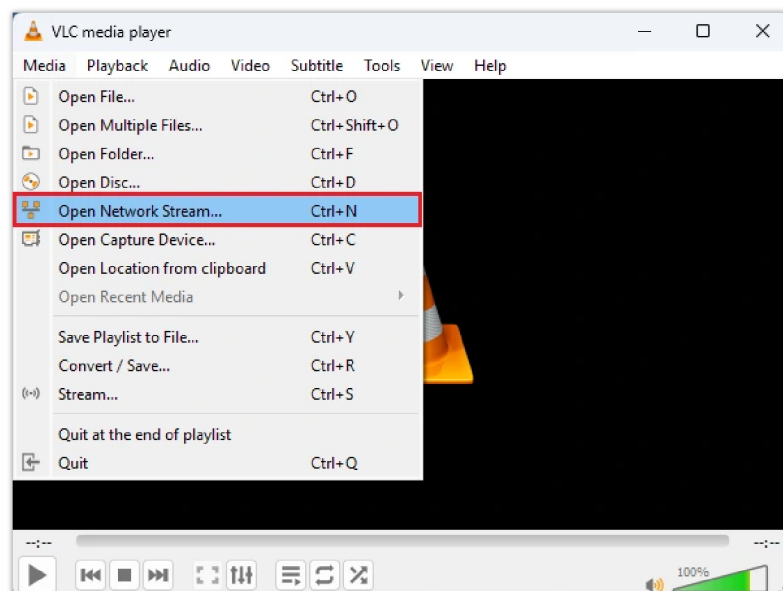
To set this feature, we will need to use a 3rd party media player where the music will be played, in our case we will use the VLC Media Player software, which can be downloaded through the following link: [VLC Media Player](#)

Configuration

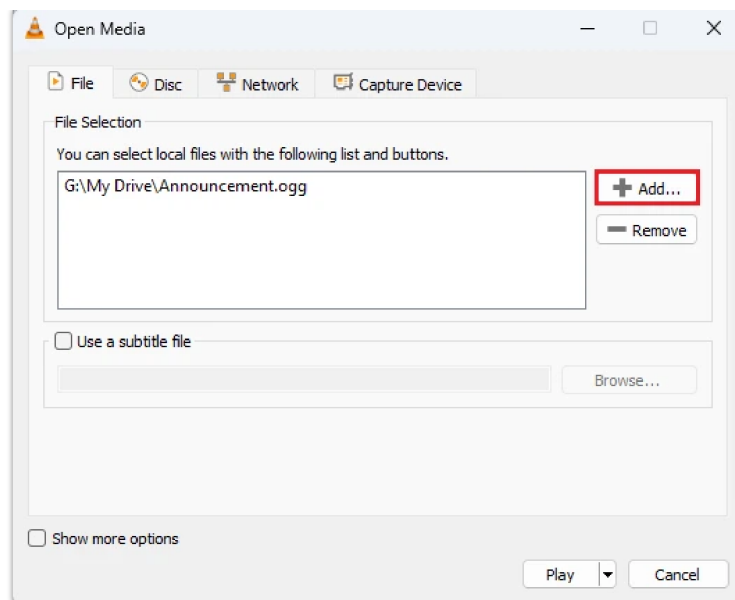
Configuration on the Media player side

Once the program is installed, please follow the steps below to prepare a streaming server function.

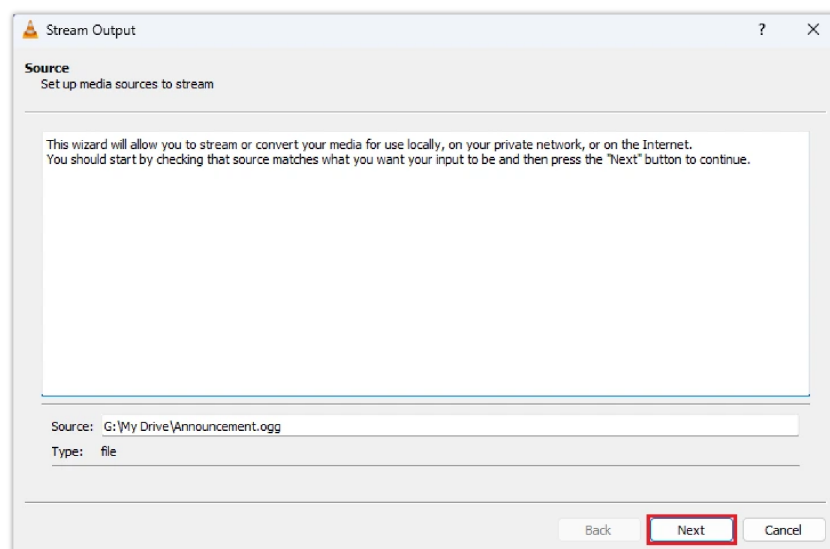
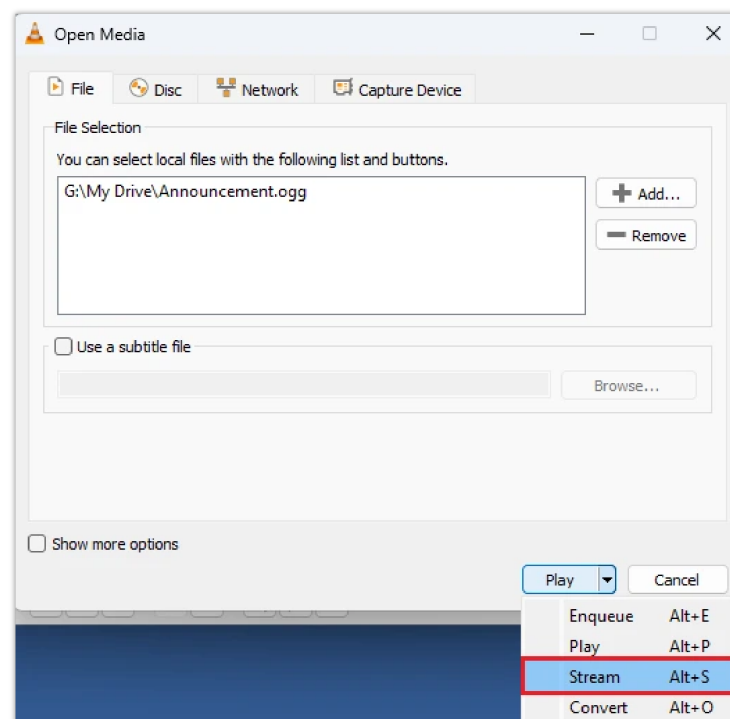
1. Open VLC and go to **Media** → **Open Network Stream**



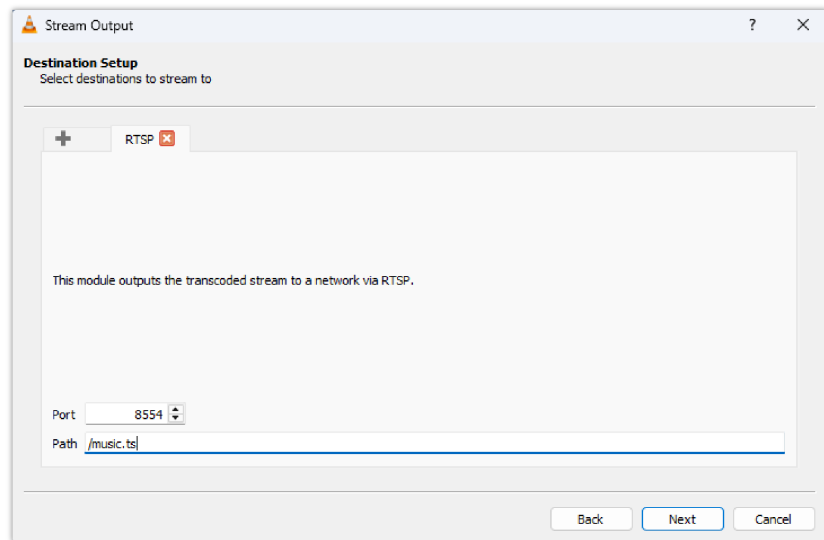
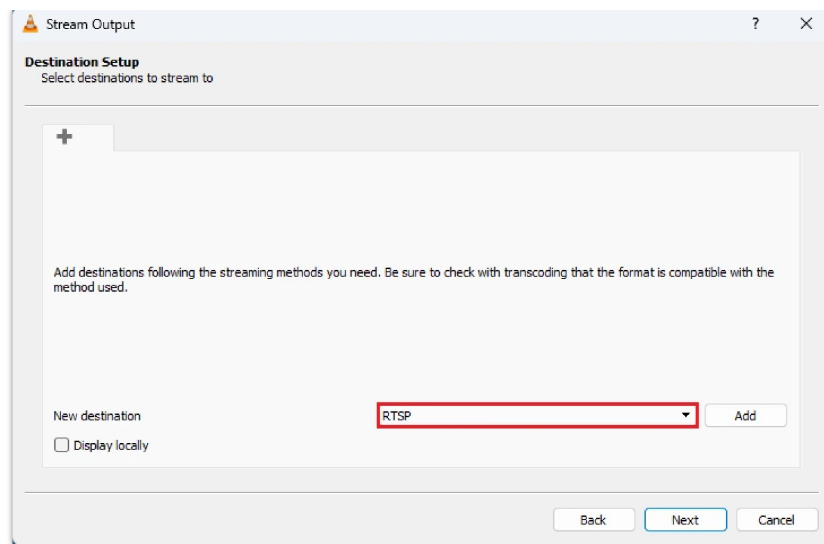
2. Go to File, and click **Add** to select the media (.ogg format) to be played.



3. Once the file is selected, help to click the triangle next to Play at the bottom and select **Stream**.



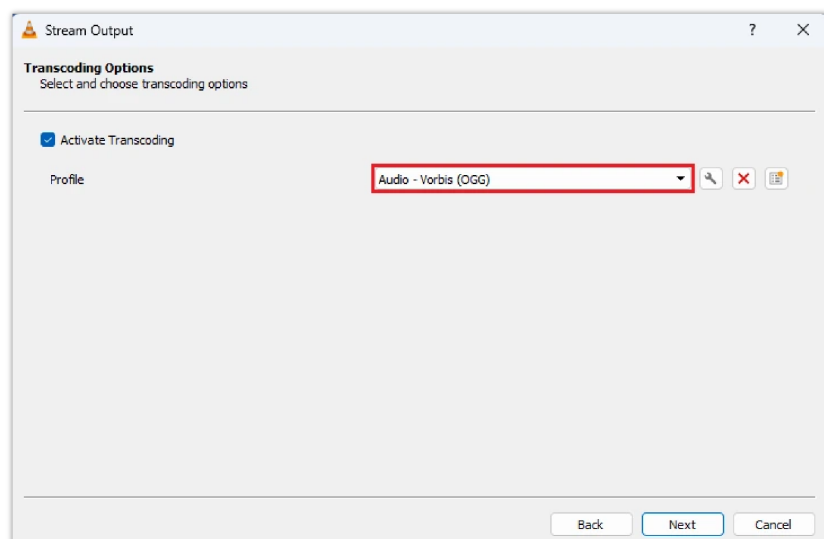
4. On the next page, select **RTSP** as the destination, then click **Add** to configure the RTSP **port** and **path**.



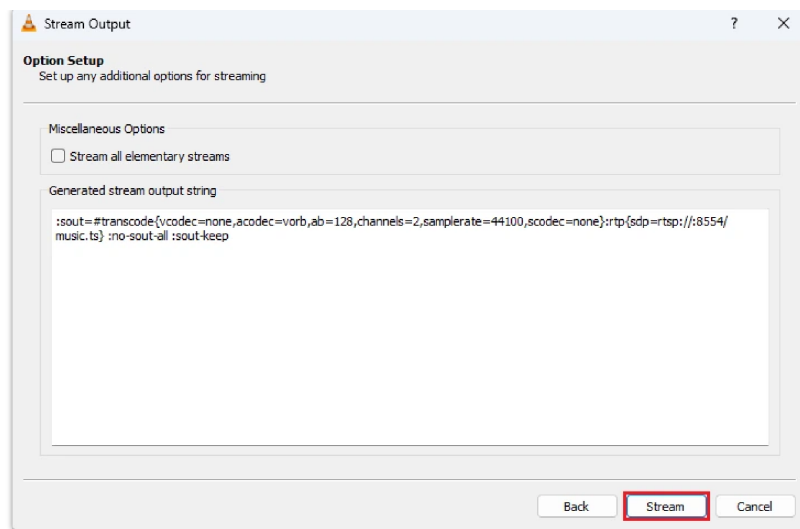
5. Once the **Port** and **Path** for RTSP are set, select a **Transcoding Profile**. Since we are using the .ogg format, choose Vorbis as the audio codec, which is the open-standard codec commonly used in OGG containers.

Note:

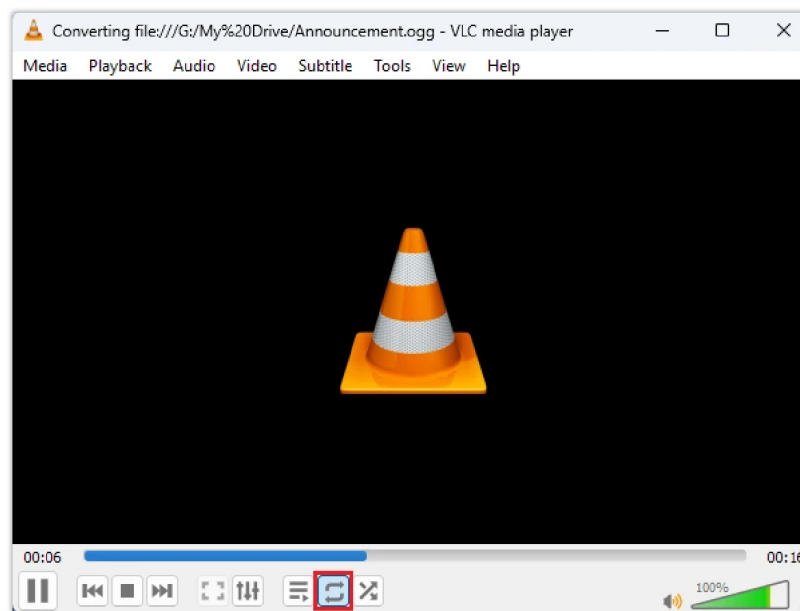
- Make sure the chosen format is compatible with RTSP, as some codecs or containers may not stream correctly over this protocol.
- The GSC35xx series supports streaming audio files in .mp3 and .ogg formats. However, it is recommended to use the .ogg (Vorbis) format when configuring VLC for RTSP streaming to ensure proper playback.



6. Once the settings are configured, you can click on **Stream** for the media to start streaming live.

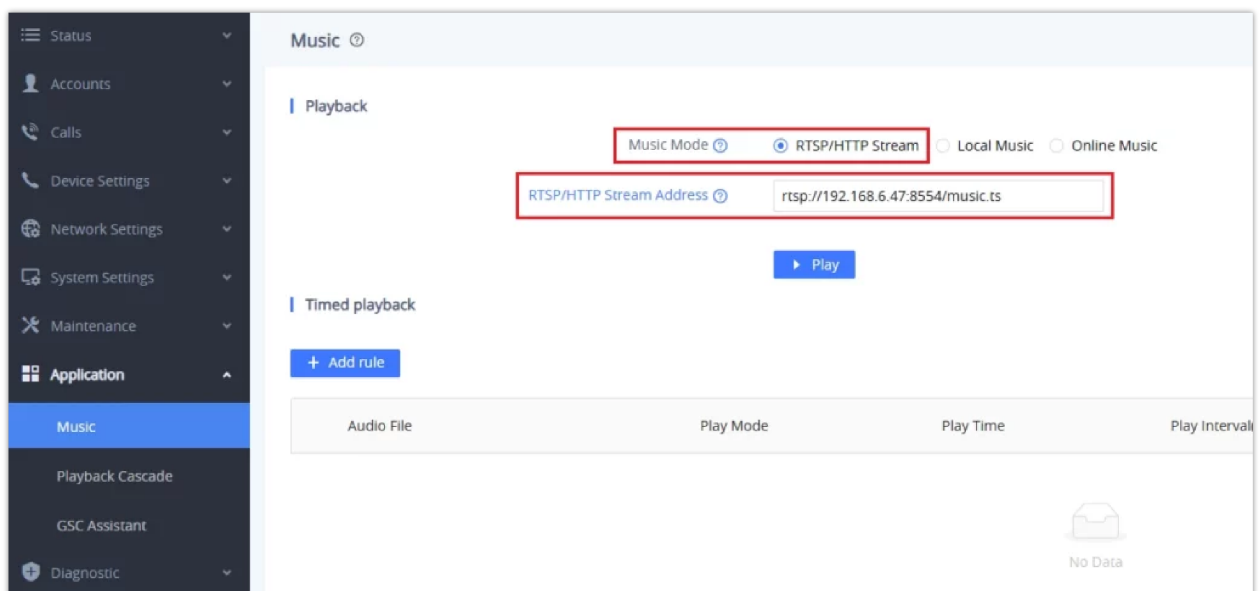


7. Optionally, users can enable the loop setting to have the audio automatically restart when it reaches the end, preventing playback from stopping.



Configuration on the GSC35xx side

From the web interface of the GSC35xx, please select Application → Music → Playback and set the music mode to RTSP/HTTP stream. When the address configured in the steps above is set, you can press the [▶ Play](#) button to start streaming



Streaming configuration on GSC35xx

Note

To be able to set a timed playback for the stream configured, please refer to the [\[Timed playback\]](#) section of the guide.

Timed Playback

With the GSC35xx Timed playback feature, you can configure local music and RTSP streams to play music on a specific schedule of your choice, which can be done by setting up specific rules and time frames for the desired action.

To configure the Timed playback rule, the user needs to define the following parameters depending on the audio file :

To define a timed playback rule for the RTSP stream, follow the steps below :

1. Set the **Music Mode** to RTSP/HTTP stream and enter the RTSP stream address in the defined section.

Timed playback rule

Music Mode ? ☒ RTSP/HTTP Stream ☐ Local Music

RTSP/HTTP Stream Address ?

Play Mode ? ☒ Single play ☐ Loop play

Play Time ? --

Frequency ?

Monday	Tuesday	Wednesday
Thursday	Friday	Saturday
Sunday		

Cancel OK

RTSP Stream Address

2. Define the **Play mode** to be set to either Single play or Loop play. If set to Loop play, the user will need to define the Play interval in seconds, which is basically the interval between the two playbacks

Timed playback rule

Music Mode ?

☒ RTSP/HTTP Stream
☐ Local Music

RTSP/HTTP Stream Address ?

rtsp://192.168.6.47:8554/music.ts

Play Mode ?

☐ Single play
☒ Loop play

Play Interval(second) ?

2

Play Time ?

01:00

--

01:30

+

Frequency ?

Monday

Thursday

Sunday

Tuesday

Friday

Wednesday

Saturday

Cancel

OK

Timed Playback rule

- Set the **Play Time**; up to three schedules can be set for the streaming period.

Timed playback rule

Music Mode ?

☒ RTSP/HTTP Stream
☐ Local Music

RTSP/HTTP Stream Address ?

rtsp://192.168.6.47:8554/music.ts

Play Mode ?

☒ Single play
☐ Loop play

Play Time ?

08:00

--

09:59

+

13:00

--

14:00

+

18:00

--

18:45

+

Frequency ?

Monday

Thursday

Sunday

Tuesday

Friday

Wednesday

Saturday

Cancel

OK

Play Time

- Configure the activation **Frequency** from Monday to Sunday. Up to 7 days can be selected. The default value is not selected.

Timed playback rule

×

Music Mode ?

☒ RTSP/HTTP Stream
 ☐ Local Music

RTSP/HTTP Stream Address ?

rtsp://192.168.6.47:8554/music.ts

Play Mode ?

☒ Single play
 ☐ Loop play

Play Time ?

08:00 ⌚ -- 09:59 ⌚ −

13:00 ⌚ -- 14:00 ⌚ −

18:00 ⌚ -- 18:45 ⌚ −

Frequency ?

Monday

Thursday

Sunday

Tuesday

Friday

Wednesday

Saturday

Cancel

OK

Frequency

Supported devices

The table below lists the supported models for the RTSP music streaming feature, along with the minimum required firmware version.

Model	Supported	Firmware
GSC3505	Yes	1.0.0.24 and above
GSC3510	Yes	1.0.0.24 and above
GSC3506	Yes	1.0.1.13 and above
GSC3506 V2	Yes	1.0.5.15 and above
GSC3516	Yes	1.0.1.29 and above

RTSP Stream Supported Devices