

VLC: Streaming RTSP in outband mode

Application note

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1 Introduction

Purpose of this document

The purpose of this document is to explain how to configure **VLC** properly to restream a RTSP stream for devices which do not support RTSP/inband mode but who support RTSP/outband mode. Indeed, when **VLC** streams with the default settings is, the Gekkota4 decoder may not be able to decode the video or it may stop the video after a while (for example 1 minute).

*That problem does not exist when **Wowza streaming engine** is used to restream an RTSP stream*

Compatibility:

- DMB400 4.10.11
- SMA300 4.10.13

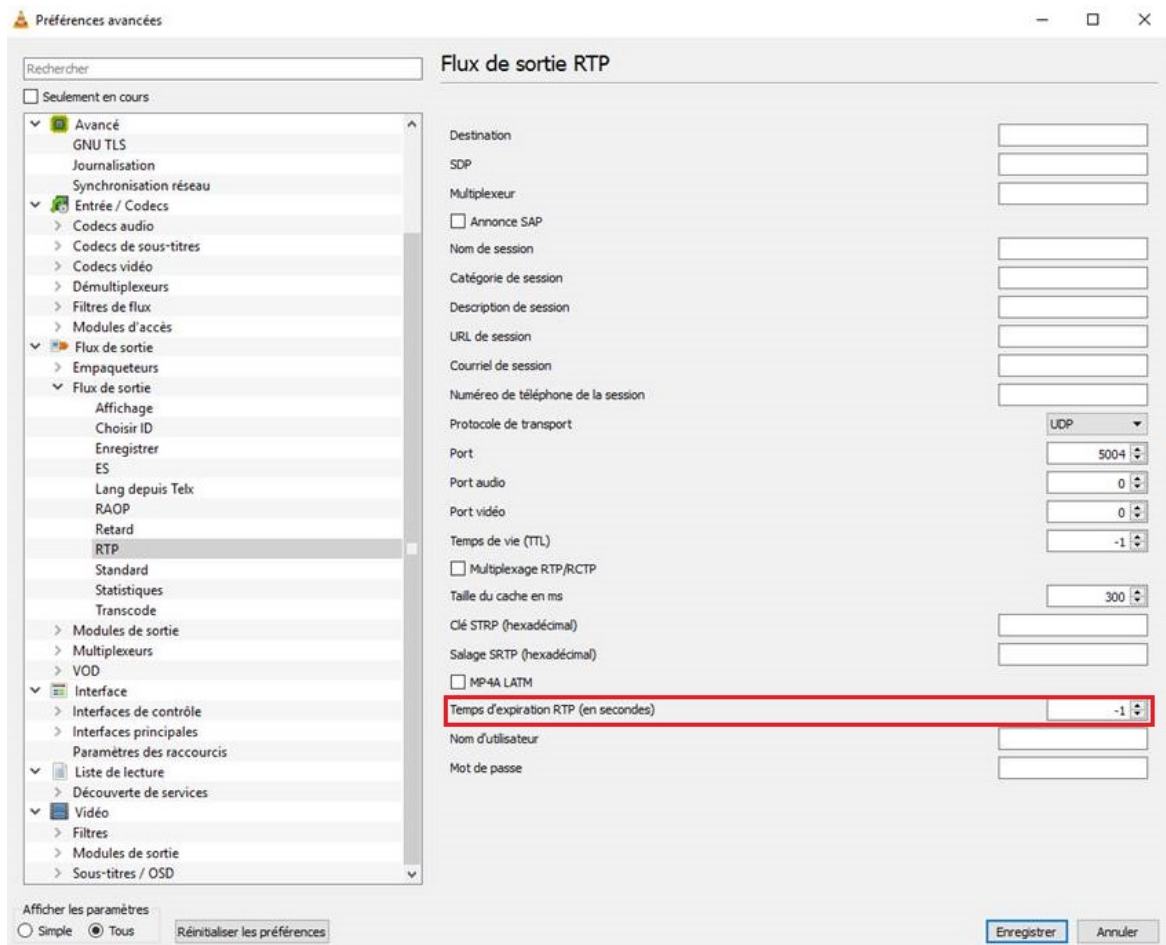
Test done with VLC version

- "2.2.6 Umbrella"

2 Case 1: the video is stopped after a while on the decoder

In case the video is stopped after a while (for example: 1 minute), thanks to inactivate **VLC > RTP expiration time** by setting:

VLC > RTP expiration time: **-1**



Given that the information is not kept each time VLC is relaunched, it is advised to launch VLC with a command line with a batch from the vlc.exe directory: `vlc.exe -rtp-timeout=999`

```
c:\Program Files (x86)\VideoLAN\VLC>vlc.exe --rtp-timeout=999
```

Note: With some other versions of VLC, it should be required to set 9999 instead of 999.

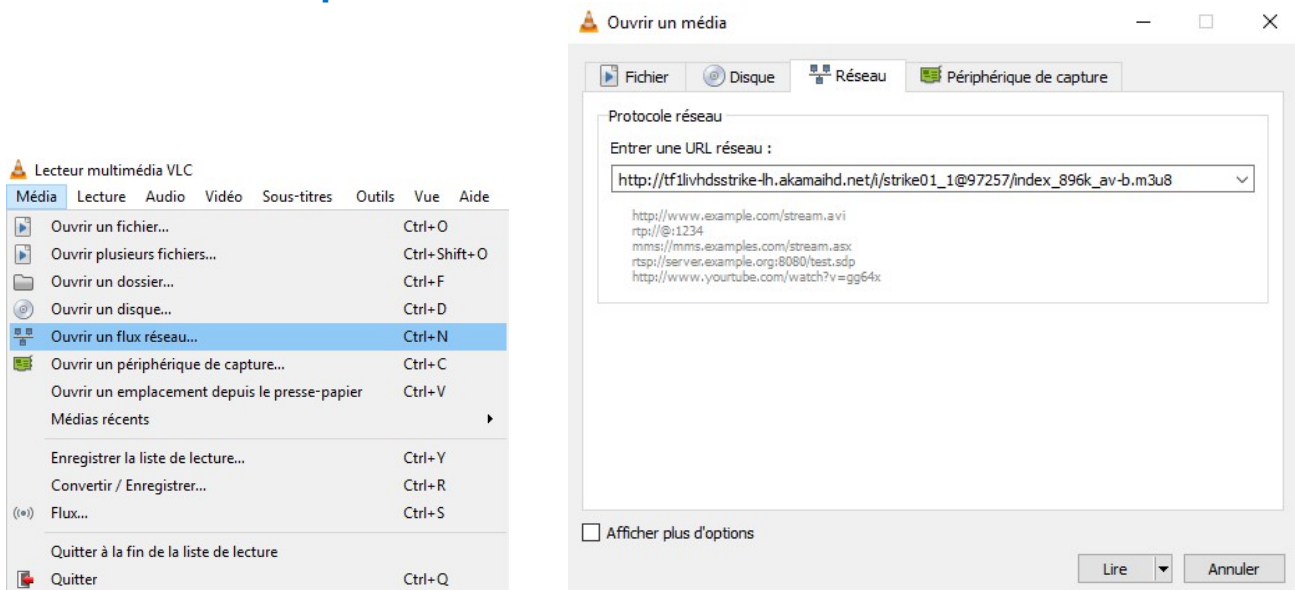
3 Case 2: the video does not start at all

VLC Use case:

- Input: RTSP Stream file: http://tf1livhdsstrike-lh.akamaihd.net/i/strike01_1@97257/index_896k_av-b.m3u8
 - o Note the data rate is often shown in the name (here 896Kbps)
- Output: `rtsp://<vlc-pc-ip-addr>:8554/RTSP`
For example: `rtsp://192.168.1.17:8554/RTSP`

3.1 Open VLC and check that the input stream can be read by VLC

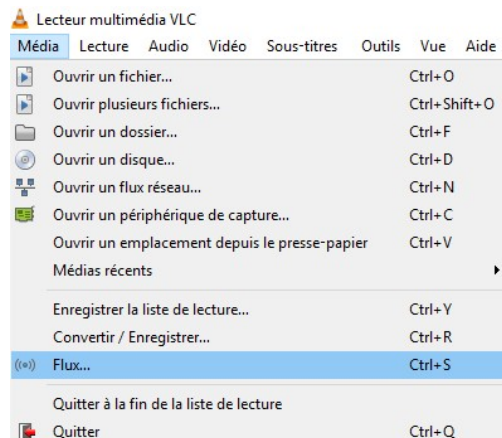
Select **VLC > Media > Open a network stream**



If VLC is able to play the video, go ahead...

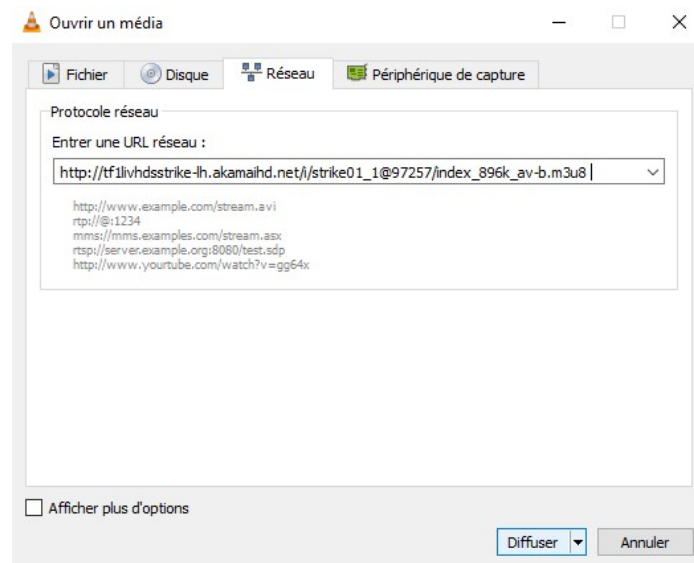
3.1.1 Restream the RTSP stream

Select **VLC > Media > Stream**

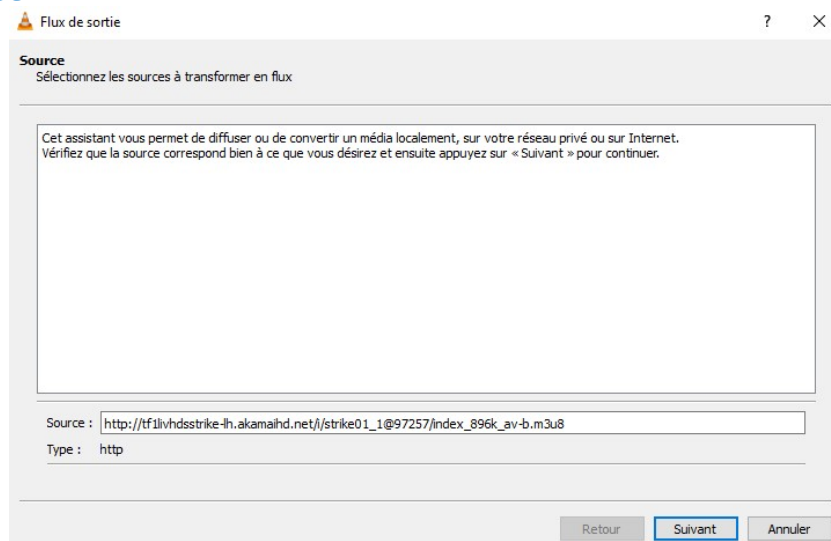


Choose tab **network**, and copy paste the RTSP URL

For example: http://tf1livhdsstrike-lh.akamaihd.net/i/strike01_1@97257/index_896k_av-b.m3u8

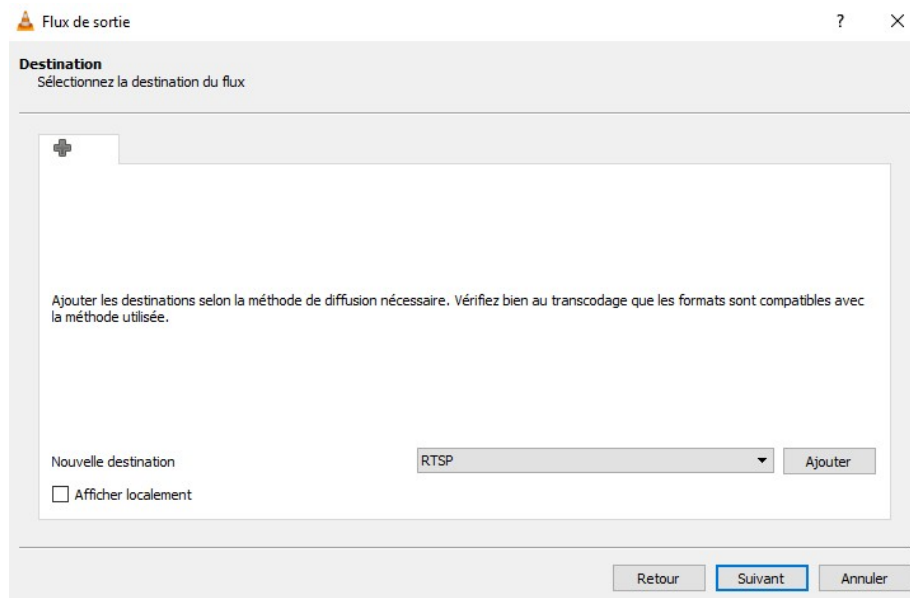


Press on **Broadcast**



Press **Next**.

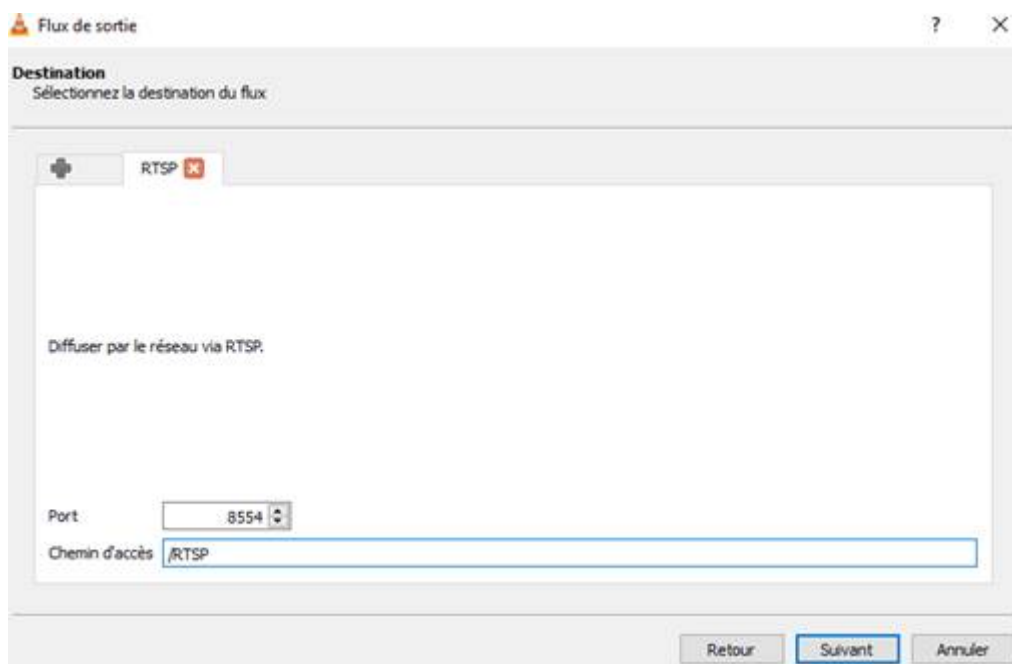
Select **RTSP** in the list and press **Add**



Press **Next**.

Leave port: 8554

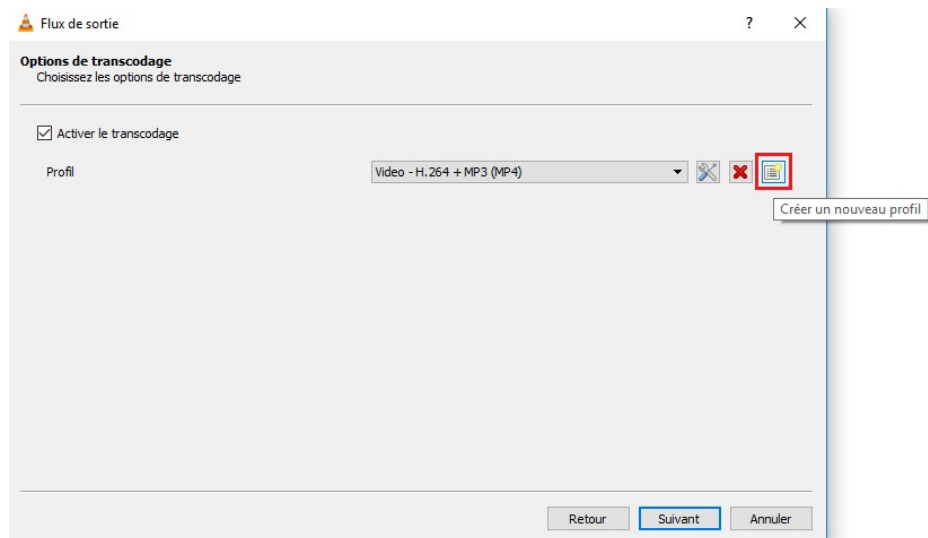
Enter the access path: /RTSP



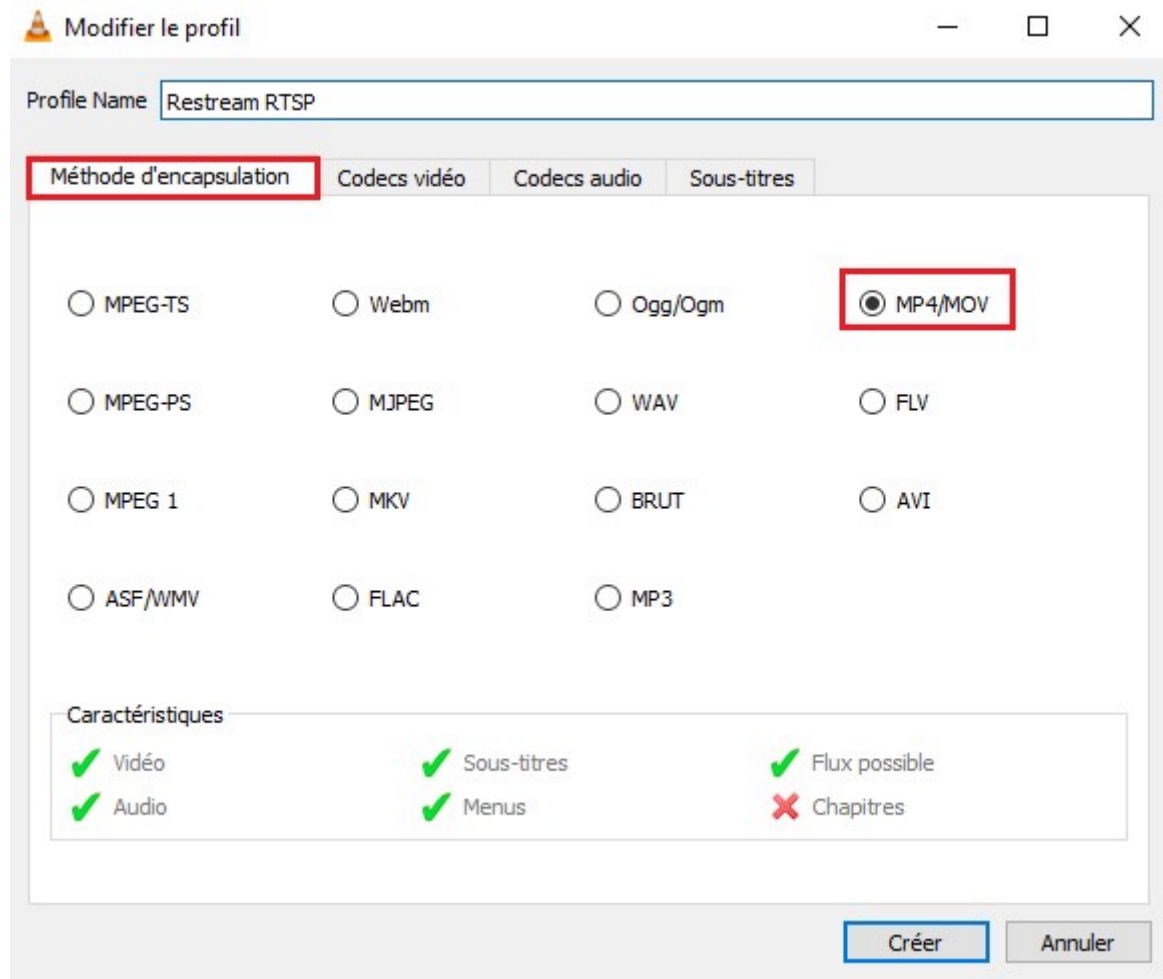
Press **Next**.

Select Activate the transcoding.

Press on Add a new profile button



Profile name : enter your personal profile to restream RTSP (ex **Restream RTSP**)
Select **Encapsulation method** tab and select **MP4/MOV**



Select **Video Codecs** tab and select **Videos**

Uncheck **Keep the video track original size**

In the encoding parameters, choose **H-264** and choose a bitrate close the one of the input RTSP stream (ex : **800 kbps**)

Modifier le profil

Profile Name: Restream RTSP

Méthode d'encapsulation: Codecs vidéo

☒ Vidéo

☐ Conserver la taille originale de la piste vidéo

Paramètres d'encodage

Codec: H-264

Débit: 800 kbit/s

Quality: non utilisé

Frame Rate: Comme la source

Options personnalisés

Créer Annuler

Resolution : leave as default

Modifier le profil

Profile Name: Restream RTSP

Méthode d'encapsulation: Codecs vidéo

☒ Vidéo

☐ Conserver la taille originale de la piste vidéo

Paramètres d'encodage: Résolution

Il est juste nécessaire de remplir un des trois paramètres suivants, VLC détectera automatiquement les autres en utilisant le rapport d'affichage original

Échelle: Automatique

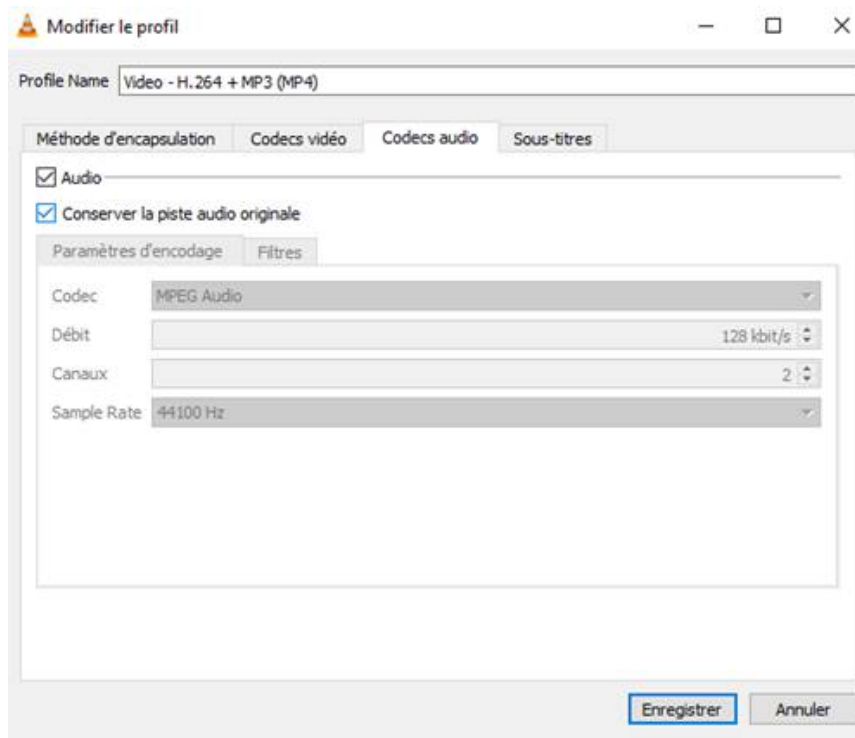
Débit d'images: Largeur Automatique Hauteur Automatique

Créer Annuler

Select **Audio Codecs** tab

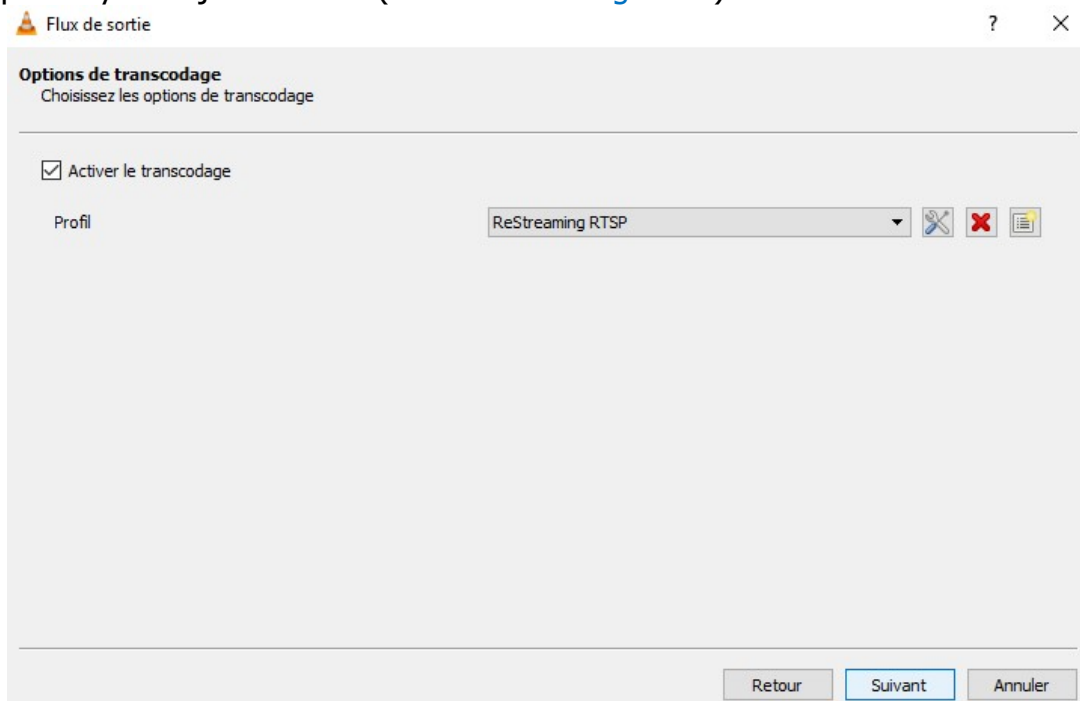
Check **Audio**

Check **Keep the original audio track**



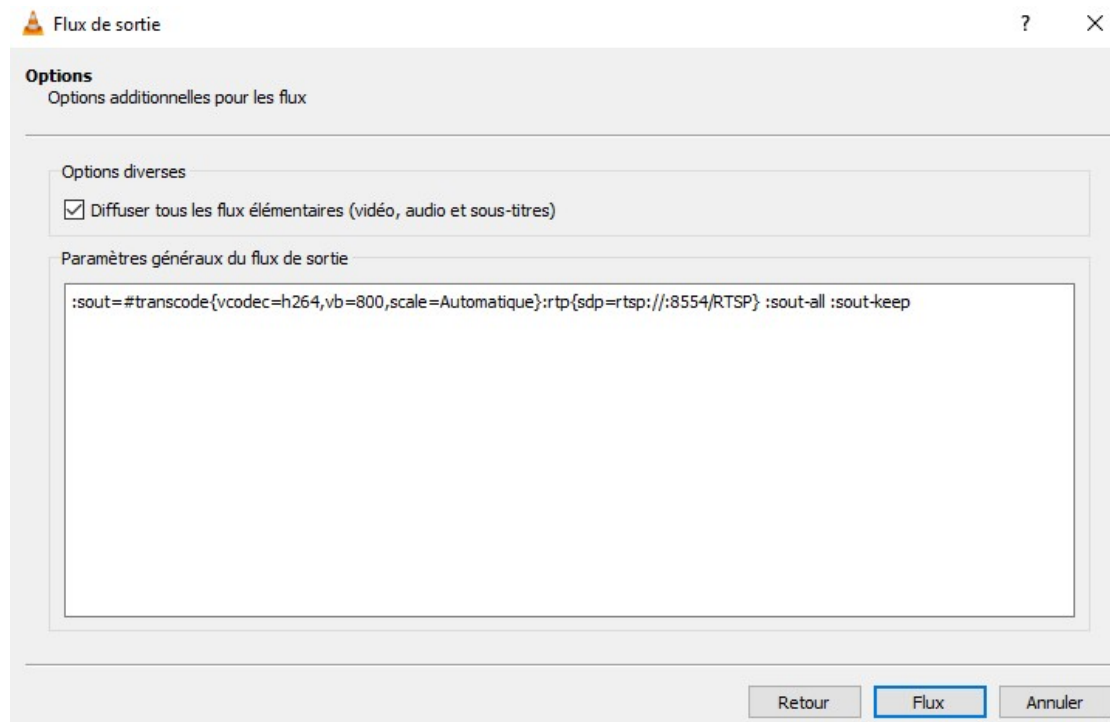
Press **Save**

Select the profile you've just created (ex : [Restreaming RTSP](#))



Press **Next**

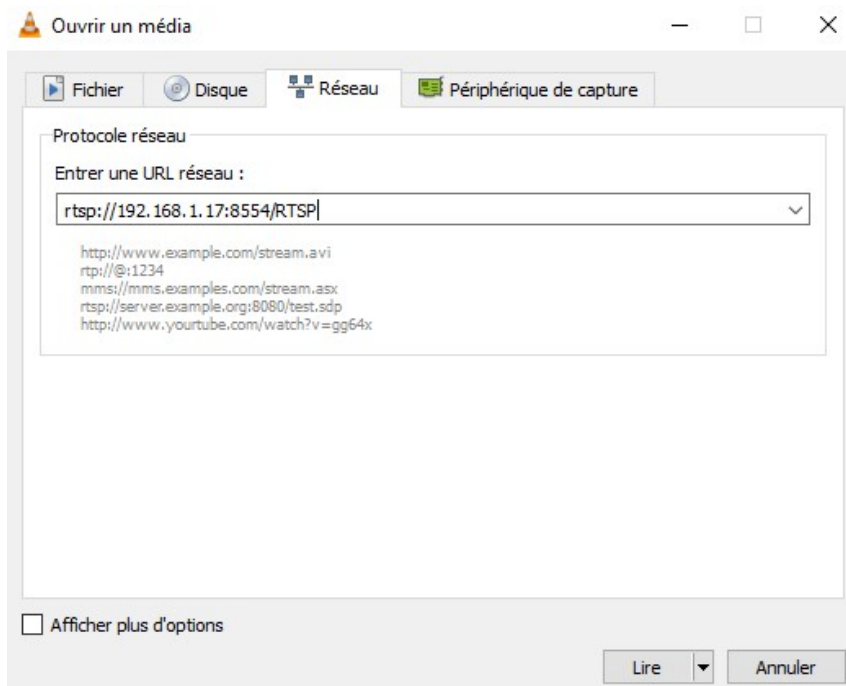
Select [Broadcast all the elementary streams](#)



Press on the **Stream** button

Before testing on DMB400 4.10.11 or SMA300 4.10.13 device, you can check whether your VLC is streaming properly the RTSP stream by opening an additional VLC session and play just for the test <rtsp://<vlc-pc-ip-addr>:8554/RTSP>

Ex:



If the video is played properly, close this test session.

4 Case 3: VLC does not stream properly because several VLC sessions are opened

Warning: in the nominal case, if by mistake, several sessions of RTSP streaming are running, it may prevent VLC to stream properly. Check in the task manager that there is only one VLC session broadcasting the RTSP stream.

Gestionnaire des tâches

Fichier Options Affichage

Processus Performance Historique des applications Démarrage Utilisateurs Détails Services

Nom	PID	Statut	Nom d'util...	Pro...	Mémoire (plage de travail...	Description
svchost.exe	1328	En cours d'exé...	Système	00	200 Ko	Processus hôte pour les ...
svchost.exe	2356	En cours d'exé...	SERVICE L...	00	188 Ko	Processus hôte pour les ...
svchost.exe	1796	En cours d'exé...	Système	00	180 Ko	Processus hôte pour les ...
svchost.exe	6308	En cours d'exé...	Système	00	176 Ko	Processus hôte pour les ...
svchost.exe	4260	En cours d'exé...	SERVICE L...	00	164 Ko	Processus hôte pour les ...
svchost.exe	4084	En cours d'exé...	Système	00	156 Ko	Processus hôte pour les ...
svchost.exe	1020	En cours d'exé...	Système	00	144 Ko	Processus hôte pour les ...
svchost.exe	4448	En cours d'exé...	SERVICE L...	00	144 Ko	Processus hôte pour les ...
System	4	En cours d'exé...	Système	00	20 Ko	NT Kernel & System
taskhostw.exe	4760	En cours d'exé...	Frederic	00	3 112 Ko	Processus hôte pour Tâc...
taskhostw.exe	2836	En cours d'exé...	Frederic	00	888 Ko	Processus hôte pour Tâc...
Taskmgr.exe	22912	En cours d'exé...	Frederic	00	27 164 Ko	Gestionnaire des tâches
Video.UI.exe	18200	Suspendu	Frederic	00	288 Ko	Video Application
vlc.exe	16116	En cours d'exé...	Frederic	18	126 104 Ko	VLC media player
vncserver.exe	4820	En cours d'exé...	Système	00	908 Ko	VNC® Server
vncserver.exe	14084	En cours d'exé...	Frederic	00	784 Ko	VNC® Server
vncserver.exe	3888	En cours d'exé...	Système	00	532 Ko	VNC® Server
wininit.exe	736	En cours d'exé...	Système	00	348 Ko	Application de démarra...
winlogon.exe	812	En cours d'exé...	Système	00	896 Ko	Application d'ouverture ...
WINWORD.EXE	3448	En cours d'exé...	Frederic	00	39 948 Ko	Microsoft Word
WUDFHost.exe	1608	En cours d'exé...	SERVICE L...	00	516 Ko	Windows Driver Founda...
WUDFHost.exe	420	En cours d'exé...	SERVICE L...	00	492 Ko	Windows Driver Founda...

Moins de détails

Fin de tâche