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Stream video from PC to N95

Nokia N95 is a nice multimedia platform. It has large screen and good audio quality. It would be great if I could stream satellite TV from my Dreambox to my N95 and watch it any where. To achieve this, my first target is to stream divx video from PC to my N95.

Well, this is more difficult than I expected. S60 mobile phones builds in Real Player, which support RTSP video stream. But I don't know why it does not support RTSP video stream from VideoLan. So, the solution is to use VideoLan as a transcoder and Darwin Stream Server as the streaming server. There can be better solution on Linux. Since my PC runing Linux is a very old laptop, my test are made on WindowsXP. N95 is connected to PC via WLAN, which garentees enough bandwidth. Here are the steps to make it work.

1. Download and install latest [VideoLan - VLC Media Player](#). The version I am using is 0.8.6a.
2. Download and install [Darwin Stream Server](#). My installation directory is "C:\Program Files\Darwin Streaming Server"
3. Start Darwin Stream Server first from command line "C:\Program Files\Darwin Streaming Server\stramingadminserver.pl"
4. Create test.m3u file in PC contains the following line: rtsp://192.168.0.101/test.sdp. Where you should replace 192.168.0.101 with the IP address of your own PC. Send the file to your mobile phone, for example via bluetooth.
5. Suppose the video file you would like to stream is s2.divx. You can make a batch file(for example test.bat) contains the following command(**Note: there are unnecessary white space in this script, you must remove those to make it working!**):

```
call "C:\Program Files\VideoLAN\VLC\vlc.exe" s2.divx
:sout=#transcode{vcodec=mp4v,vb=1024,acodec=mp4a,ab=64,channel
s=2,audio-asyn,width=320,height=240}:rtp{dst=127.0.0.1,
port=1234,sdp=file://"C:\Program Files\Darwin Streaming
Server\Movies\test.sdp"} --aspect-ratio=width:height
```

6. Run the batch file(test.bat) on PC. VLC should be started. Then open the test.m3u file on your mobile phone. Real Player shall be launched and starts to play the video.

You can ajust the bit rate. I have tested vb values. 128, 256, 384, 512 and 1024 works fine on N95. But 2048 seems to be too much. "ab" can be 64 or 128. But in my testing, not all divx file and mpeg file works with these settings.

If you can't make it work, you shall check your firewall settings.

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Stream video from Dreambox to Nokia N95(S60)

In the same way as stream video file from PC to N95, it's not difficult to stream video from Dreambox to N95. Here are the steps.

1. Download and install latest [VideoLan - VLC Media Player](#). The version I am using is 0.8.6a.
2. Download and install [Darwin Stream Server](#). My installation directory is "C:\Program Files\Darwin Streaming Server"
3. Start Darwin Stream Server first from command line "C:\Program Files\Darwin Streaming Server\streamingadminserver.pl"
4. Create test.m3u file in PC contains the following line: `rtsp://192.168.0.101/test.sdp`. Where you should replace 192.168.0.101 with the IP address of your own PC. Send the file to your mobile phone, for example via bluetooth.
5. Suppose IP address of your Dreambox is 192.168.0.102, open Dreambox web interface by web browser of your PC: `http://192.168.0.102`. Click on the "VLC" button and save(Not Open) the video.m3u file to your PC.
6. You can make a batch file(for example test.bat) contains the following command (**Note: there are unnecessary white space in this script, you must remove those to make it working!**):

```
call "C:\Program Files\VideoLAN\VLC\vlc.exe" video.m3u
:sout=#transcode{vcodec=mp4v,vb=1024,acodec=mp4a,ab=64,channels=2,
audio-asyn,width=320,height=240}:rtp{dst=127.0.0.1,port=1234,
sdp=file://"C:\Program Files\Darwin Streaming
Server\Movies\test.sdp"} --aspect-ratio=width:height
```

7. Run the batch file(test.bat) on PC. VLC should be started. Then open the test.m3u file on your mobile phone. Real Player shall be launched and starts to play the video.

Again, if it's not working, you shall check firewall settings of your PC.