

Knowledge Base

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Streaming Video in Second Life

Streaming video into Second Life is fairly simple and provides you with increased abilities in information potential for entertainment venues and special events.

This article steps you through the processes of establishing movie playback, streaming live video into

Streaming Video *into* Second Life

Getting Started

The following are the basic prerequisites for streaming video into Second Life:

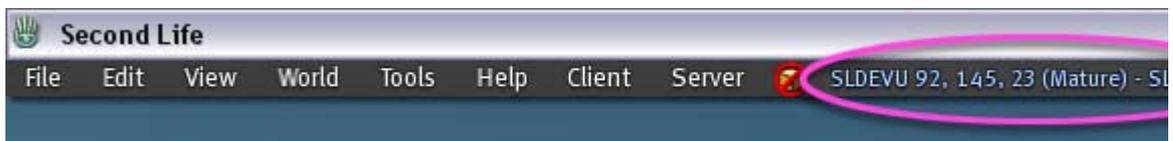
- You must either be the landowner or administrator of the property you plan to stream into
- Your movie files must be compressed using QuickTime format, and QuickTime must be installed
 - If the video you're attempting to stream plays in the QuickTime player on your own computer
 - If the video you're attempting to stream doesn't play in the QuickTime player on your own computer
- The movie must exist as an active URL link on a hosting web server

Prior to setting up your media playback mechanism in Second Life, test the URL of your movie by pasting it into a browser. If you experience any problems streaming it into Second Life, you shouldn't experience any problems streaming it into Second Life.

Setting Up the Media Player and Accessing a S

The first step is to set up a media player in Second Life. While standing on the parcel of land you wish to stream into, follow these steps:

1. Create an object to be your video screen.
2. Open the About Land window and click the **Media** tab. There are three ways to do this:
 - Right-click on the parcel of land you're on and select **About Land** from the pie menu
 - From the menu bar at the top of the Second Life window, select **World > About Land**
 - On the menu bar, click on the location information text



The About Land window can be prompted simply by clicking on your location information on the menu bar.

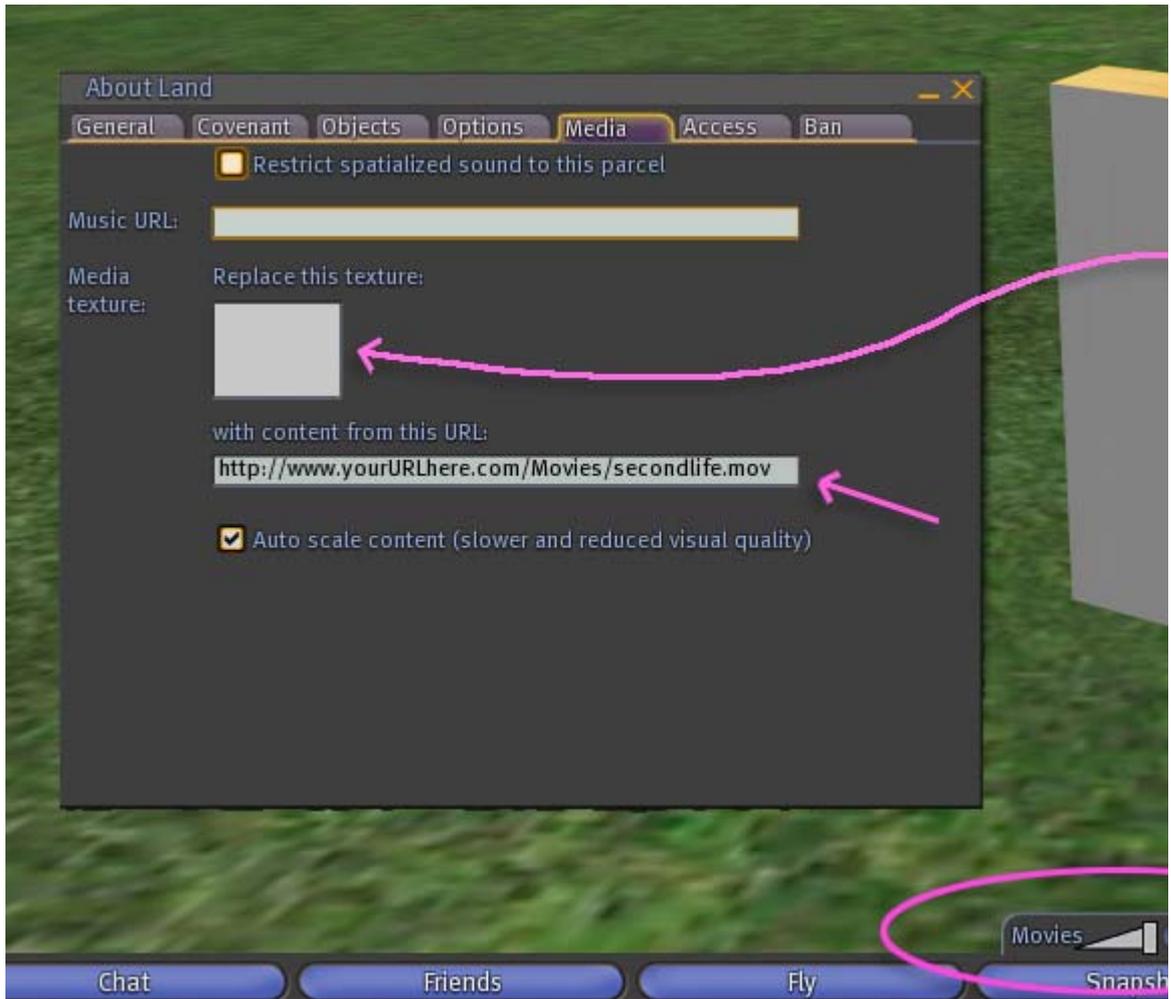
3. Place a unique texture from your inventory on the video screen.



Note: We suggest that you use the default media texture found in the Library > Textures folder in your inventory.

You can use any texture you like, as long as the textures in steps 3 and 4 are identical.

4. Place the same texture you placed on the screen (from #3 above) into the **Replace this texture**



The video screen and the Media tab thumbnail **must** hold the same texture. Note the playback when a URL is placed in the content entry field.

5. Enter the URL of the video you want to stream in the **with content from this URL** field immediately.
6. The media player controls will appear at the bottom of your screen, and for any visitor to your parcel.
7. Use your playback controls to view the movie. The movie will play on your object surface (the video screen).

Using LSL Commands to Play Movies

The Linden Scripting Language (LSL) is one of the most powerful components of the Second Life platform. It allows you to stream video onto objects. An example can be found in your Second Life inventory:

Inventory > Library > Objects > Media Player

After dragging and dropping the media player object onto your land:

1. Right-click on the Media Player to access the Edit window
2. Click the **Contents** tab, and double click on the script labeled **Media Controller**.
3. Edit the script as necessary for your playback (you may want to consult a scripting specialist in Second Life).

Broadcasting Video *from* Second Life

Broadcasting from Second Life is very similar to streaming live media into Second Life, although you have more control over the content.

To do this, make sure you have:

- A computer fast enough to run Second Life and your capture/broadcasting software simultaneously
- Enough upload bandwidth for the stream, typically a minimum of 250kbps
- A media streaming host
- A website to stream from

Setup for Mac

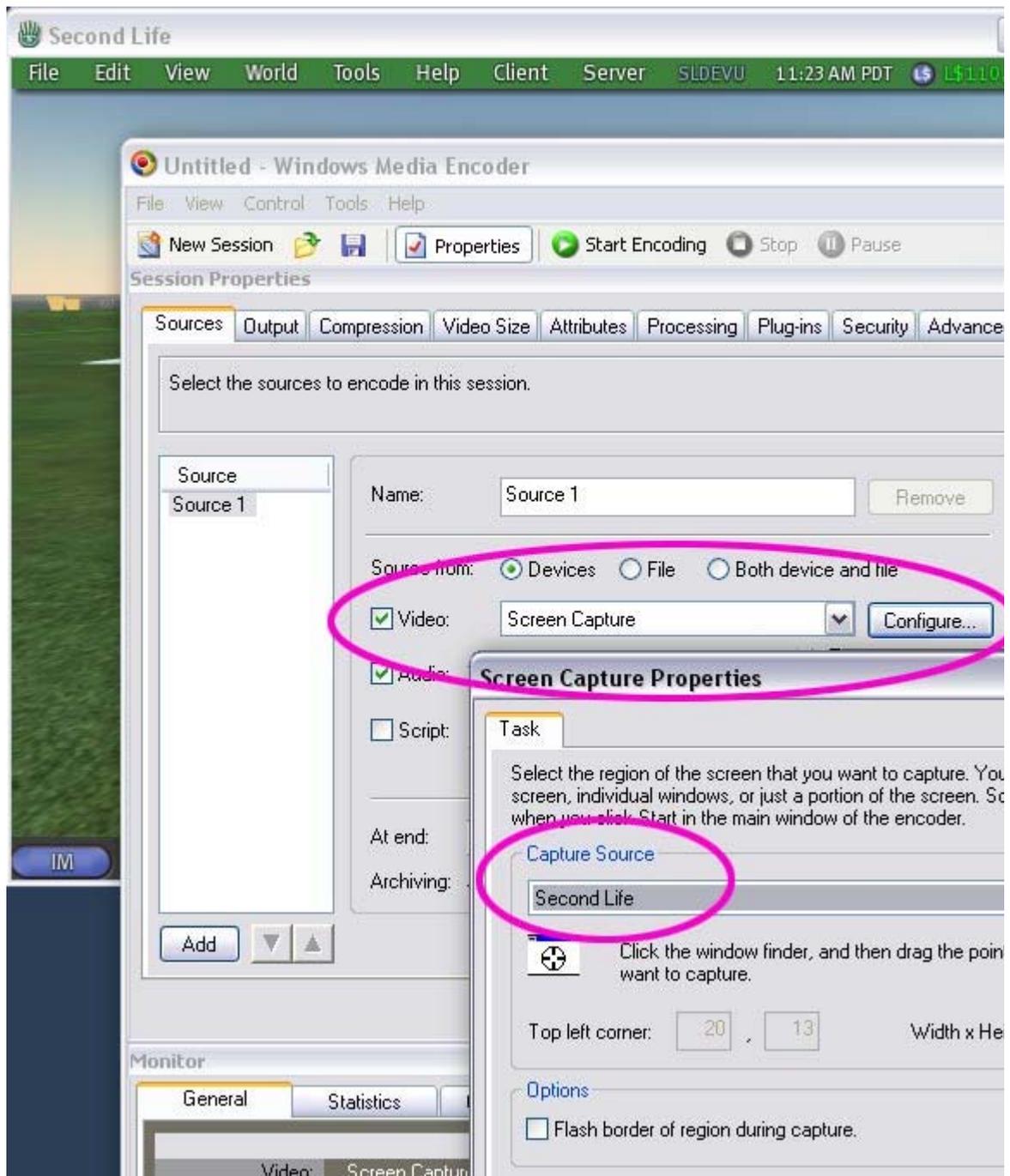
1. Run Second Life on a fast Macintosh computer.
2. Set Second Life's window size by selecting **File > Set Window Size** and choosing your preferred window size.
3. Install and run QuickTime Broadcaster.
Read the information on Apple's web site to configure it correctly.
4. Point Broadcaster's output to a host server (QTSS), which provides you with a URL for the stream.
5. You'll now have an active URL of the stream.

Setup for PC

1. Run Second Life on a fast computer.
2. Set Second Life's window size by selecting **File > Set Window Size** and choosing your preferred window size.
3. Install and run Windows Media Encoder 9.
Read the documentation in order to configure it correctly.
4. Make Second Life the window to capture in WME9:
 1. Click **Properties > Sources > [Video] Configure**.
 2. In the **Capture Source** dropdown, select **Second Life**.

In **Properties > Sources > [Video] Configure** you can select **Region of Screen** from the dropdown menu. You can capture either by dragging a selection window or entering exact pixel coordinates.

You can also choose to both broadcast and save a local version (compressed in WMV format) on your computer, a lot of RAM, and a lot of free space on your hard drive.



The Windows Media Encoder 9 Properties panel, with *Second Life* selected as the *Capture Source*

5. In the **Output** tab, select **Push to server** and enter the data for your hosting server. This will

Streaming Live Video into Second

Common Considerations

- When deciding on a host for your stream, be aware of the maximum number of simultaneous c
- Understand that you may experience latency in the stream (from when you do something in Se
- common in any form of streamed media, and can range from a few seconds to 15 seconds or m
- Make sure your video and audio codecs are up to date.



Tip: Test each portion of this process as you go along. Troubleshooting will be much easier because you'll be able to isolate exactly where a problem may exist in the process.

Second Life Event Broadcasting (Concerts, me

When broadcasting an inworld live event, you may need to keep your avatar logged in for more than t open then [Client menu](#) if it's not already on the menu bar, then deselect select **Client > Character T**

Only run Second Life and your capture/broadcasting software on your source computer. This will enab task.

Real-World Event Broadcasting (Concerts, lect

A video camera will (most likely) serve as your capture source device.

Only run Second Life and your capture/broadcasting software on your source computer. This will enab task.

Setup for Mac

1. Install and run QuickTime Broadcaster on a fast computer.
Read the information on Apple's web site to configure it correctly.
2. Take the output from your video camera and make it the input (source) in QuickTime Broadcas



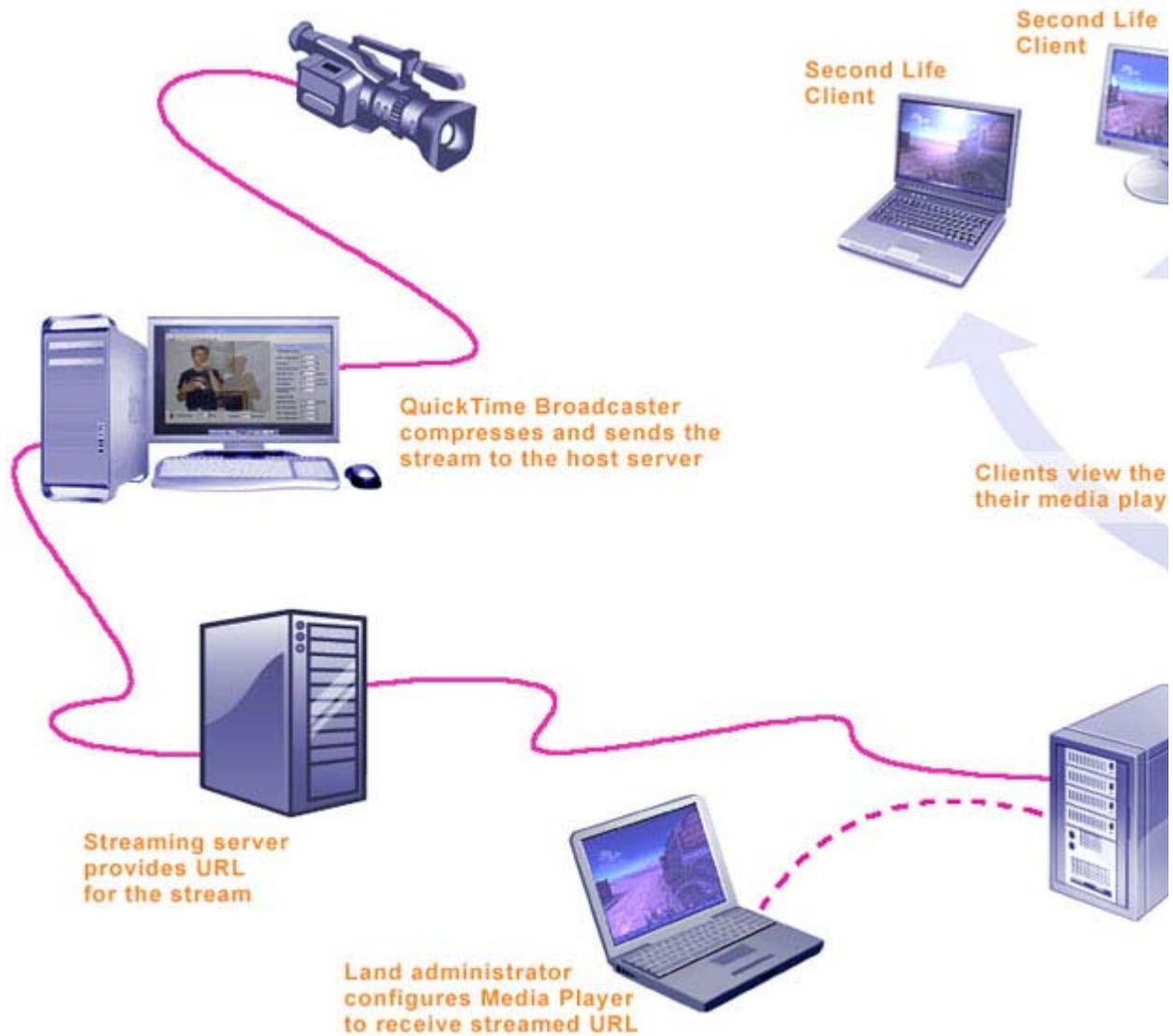
Tip: The simplest way to connect your camera to your computer is to connect the FireWire output the camera to the FireWire input on the computer.

3. Point Broadcaster's output to a host server. This will provide you with the URL for the stream.



Tip: Apple's QuickTime Streaming Server is a great solution for this.

4. In Second Life, configure the **Media** tab as described above, and paste the streaming URL into



This diagram shows how to setup a live video stream into Second Life via QuickTime Broadcaster (QTI configuration is the same, except for the software used on the encoding/broadcasting computer).

Set-up for PC

1. Install and run a streaming software solution such as Vara Software's Wirecast 3 or NetroMedia. Be sure to read the information about the technology you're using so you configure it correctly.
2. Take the output from your video camera and make it the input (source).



Tip: The simplest way to connect your camera to your computer is to connect the FireWire output of the camera to the FireWire input on the computer (this may require a capture card with FireWire input).

3. Point the output stream to a host server. This will provide you with the URL for the stream (see
4. In Second Life, configure the **Media** tab as described above, and paste the streaming URL into

Helpful Links

Capture/Broadcasting solutions

[QuickTime Broadcaster](#)

[Windows Media Encoder 9](#)

[Camtasia Studio 4](#)

[VaraSoftware](#)

[Netro Media](#)

[For a list of software capture and broadcast solutions, Google: "streaming video software"](#) (remember

Hosting Solutions

[QuickTime Streaming Server](#)

[Stream Hoster](#)

[Bulletstream Technologies](#)

[VitalStream](#)

[Streaming Marketplace](#)

[StreamingMedia](#) (this site is a great resource for streaming video and audio)

[For a list of host sites, Google: "video streaming host"](#) (remember that they must be QuickTime comp

Case Studies

[Ustream.com](#)

[DestroyTV.com](#)

Rating: ★☆☆☆☆ (14 Votes)

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