



Streaming Media Server

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Streaming Media Server

Learning Objectives

Upon completion of this workshop you will be able to:

- Determine the desired end user experience
- Understand how the various options and service can produce the desired results
- Navigate the Streamer application
- Upload audio and/or video files for on-demand playback
- Edit the stream properties and manage your streams on the server

Logging on to Streamer

URL to
Bookmark



User
Agreement

Go to <http://streamer.sandiego.edu> and log in with your MySanDiego user name and password. Bookmark this page for future reference.



You must agree to the terms and conditions of the User Agreement. Please read this carefully and understand what you are agreeing to! By clicking this radio button you are giving ownership of this material to the University of San Diego. You are responsible for all copyright permissions and laws.

Overview of Services

The screenshot shows the 'Streamer' interface for the University of San Diego. At the top, there are links for 'Online Help', 'Support Info', and 'Log Off'. The main heading is 'Stream Management'. Below this, there is a table with four rows:

Request Video Production	Submit a video production request to the Instructional Media Services Department.
Create On-Demand Stream	Upload a pre-recorded media file that can be accessed "On Demand" during a specified time period.
Setup Live Broadcast	Setup a live media broadcast where users can connect to watch or listen to the recorded event as it occurs. <i>If you are unfamiliar with this process please submit a Video Production Request.</i>
View Stream History	View and modify the list of previously created On Demand Streams and Live Broadcasts.

Below the table, there is a section for additional assistance with media, listing contact information for Web Services, Instructional Media Services, and the iTeam.

For additional assistance with your media, please contact the appropriate department referenced below:
Web Services - (websupport@sandiego.edu) - for assistance with integrating your media with a departmental Web site.
Instructional Media Services - (ims@sandiego.edu) - for assistance with producing, editing, formatting your media.
iTeam - (iteam@sandiego.edu) - for assistance with adding your media links to a CEI (WebCT/Blackboard) course and all other questions.

At the bottom, it says 'Streamer v2.002', 'USD Copyright Information', and '© 2009 USD Information Technology Services. All rights reserved.'

Request for
Video
Production

If you need to have an event recorded or if you have media that needs to be converted into an acceptable format for Streamer, please use this link to submit a request for assistance to our Instructional Media Services department. Be sure to fill out the form completely and use the Additional Notes area to describe your project. You will be contacted by a representative at their earliest convenience. Be sure to submit video production requests for upcoming events *at least 3 weeks in advance*.

Create On-
Demand
Stream

Creating on-demand streaming media is the most commonly used feature. Select this option if you want to upload a video or audio file and link it to a web page, insert the link into a WebCT course, or email the link to a list of recipients.

Files can be uploaded, but they *cannot be downloaded*, so be sure to keep your original files somewhere safe.

The following file types can be uploaded to Streamer. Attempting to upload formats other than these will result in failed attempts:

- .rm, .ra, .rmvb (Real audio/video)
- .asf, .wma, .wmv (Windows Media)
- .mov (QuickTime)
- .mpg, .mpeg (MPEG-4)
- .mp3 (MP3)
- .wav (WAV)
- .flv (Flash)

Once the upload is complete, you will receive an email containing the link to the new stream. You can then distribute this link to your audience via email, a link on a web page, or a link in a WebCT course. Note that the link is very cryptic and not searchable by the title you have given it.

It is advisable to inform your audience if they will need to download a media player in order to view the stream, and to provide a link to that download page. (See 'Plug-In Players – Downloads' a separate handout also available on our web site).

Live Broadcast

Streamer is capable of delivering a live event, however, this is something we recommend doing only with the assistance of our Instructional Media Services department. The encoding process and details are quiet complex and a professional should be consulted. Please complete the Video Production Request providing as much advance notice as possible, *a minimum of 30 days*.

View Stream History

In this area you can manage your streams and make changes to stream properties. Here, too, is also where you will find a wide variety of display choices and special features that will allow you to customize the display for your end users.

User Login	Creation Date	Stream Name	Original File Name	Stream Type				
cburrows	8/18/2008	Welcome to USD	14.flv	On Demand - Flash Video				
cburrows	10/6/2008	Test Media	14.flv	On Demand - Flash Video				
cburrows	2/11/2009	MS_Surface	Table.wmv	On Demand - Windows Media				
cburrows	3/19/2009	Test MP3	Brain on a chip...mp3	On Demand - MP3				
cburrows	3/19/2009	MP4 test	SLStream320.mp4	On Demand - MPEG4				
cburrows	4/21/2009	MSCM Cox P1	Dr Cox Intervie w part 1.flv	On Demand - Flash Video				
cburrows	4/21/2009	MSCM Cox P2	Dr Cox Intervie w part 2.flv	On Demand - Flash Video				
cburrows	4/21/2009	MSCM Cox P3	Dr Cox Intervie w part 3.flv	On Demand - Flash Video				
cburrows	4/21/2009	MSCM Todd Interview	Ian Todd Interv iew.flv	On Demand - Flash Video				
cburrows	4/21/2009	MSCM LaRue Testimoni	Testimonial Al	On Demand - Flash Video				

Search By: User Name Create Date Stream Name Stream Type

Select User Name: 15 Streams found

Notice the four icons on the right side of the application window



left to right:

- Demo Links – this is one of the newest enhancements to streamer and where you can see and demo the final output.
 - Width and Height can be adjusted here and you can preview the results of your edits.

- Autoplay – if you are embedding this stream on a web page and want it to begin to play automatically when the page loads, mark this check box.
- Preview Image – Streams will by default display just a black screen area with a play control.



If you would rather replace this with a still image, a frame from the video, mark the check box, select the frame you would like to display (0 seconds = the first frame, or select any other second (up to 59) and preview to find the representation you are looking for), and click on 'Adjust'.

Playback Settings: Width: 480 Height: 380 Adjust

Click the "Adjust" button to save your changes. AutoPlay Preview Image Frame Grab (seconds) 6
(Set image w/Frame Grab) 0 = 1st Frame



- The lower portion of this window contains the code necessary to program the various displays. You can preview any of the options by clicking on the hyperlink in the Demo column

Description	Link	Demo (click links below)
Contribute User / Email Link	http://streamer.sandiego.edu/Streamer/StreamPlayer.aspx?id=52b5c7n3n	Thesis 3
Direct Link	http://streamer.sandiego.edu/QuickTime/WLcXoo8TWQ1Yu.mp4	
Pop-Up	<code></code>	Thesis 3
Pop-Up with Logo	<code></code>	Thesis 3
Stand Alone	<code></code>	Thesis 3
Light Window	<code></code>	Thesis 3
Embedded in Page	<code><iframe src="http://streamer.sandiego.edu/Streamer/StreamPlayer.aspx?id=52b5c7n3n" width="480" height="380"></code>	Thesis 3

Note: If you wish to implement any of these features on a departmental web page and are a Contribute user, you will need to contact the Web Services team for assistance with adding the code to the web page (websupport@sandiego.edu).

- View Stream Details – here you can edit some of the choices you made when you initially uploaded the media; stream name, who the stream can be seen by, expiration dates, etc. You can also jump to the demo links page and change the ownership of the stream to another individual.
- View Stream Usage Report – clicking on this icon takes you to a page where you can see how many users have accessed/viewed the stream. Users are only identified by the IP address from which they connected, not by user name.

Client IP Address	Average Bit Rate	Stream Start Time	Stream End Time	Total Bytes Transferred
10.80.16.107	Not Available	6/15/2009 10:24:18 AM	Not Available	Not Available
10.80.20.47	Not Available	6/15/2009 10:53:55 AM	Not Available	Not Available
10.80.20.112	Not Available	6/15/2009 11:28:52 AM	Not Available	Not Available

- Delete Stream – click here to manually delete any streams that you no longer wish to keep in your inventory.

Preparing Your Media

Recommended Specs

Preparing your media in advance can save you time and headaches later. These guidelines will make your media viewable by the largest audience and save you upload time.

- Compression rate - 300 Kbps
- Size - 320 x 240 (or 480 x 360)
- Frame rate - 30 per second

There is no limit to the size of the files that can be uploaded to streamer, however, there is a 90 minute time frame in which you must be able to complete the upload before the server times out. Uploading files from an on-campus connection is highly recommended. As a guideline, a 15 minute Windows Media video using the referenced specs above (approx. 36MB) should take about 3 minutes to upload (on-campus connection).

If you have video in a format other than one of the acceptable formats listed on page 3, you will need to convert the media. For assistance converting your media, fill out the Video Production Request form. Similarly, if you have material on VHS/DVD that you would like to stream, please use the Video Production Request form. It may be necessary to provide proof of copyright permission in order to digitize some materials.

A number of free products for file conversion are also available on the Web if you are so inclined. Windows Media Encoder (<http://www.microsoft.com/windows/windowsmedia/forpros/encoder/default.aspx>) can convert many file types.

Additional Resources

Media Player Downloads



Windows Media Player

<http://www.microsoft.com/windows/windowsmedia/default.msp>



Real Player

<http://www.real.com/player/>



QuickTime

<http://www.apple.com/quicktime/download/>



Flash Player

<http://get.adobe.com/flashplayer/>

USD Support Page

Instructional Design and Training – Supported Technology

<http://www.sandiego.edu/its/idt/tech/streaming.php>