



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

Online Help | Support Info | Log Off

University of San Diego Streamer

Log On

User Name:

Password:

Welcome to the Streamer web page. Before you upload your materials to the Streamer site, you will need to sign in here and agree to allow for the posting and distribution of the materials according to the terms of the usage agreement.

***Note: You are responsible for complying with all copyright policies and must agree to the terms and conditions set forth when uploading materials. Please be sure you understand what you are agreeing to.**

User
Agreement

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

User Agreement

By signing below and uploading your media file to the Streamer site, you agree as follows:

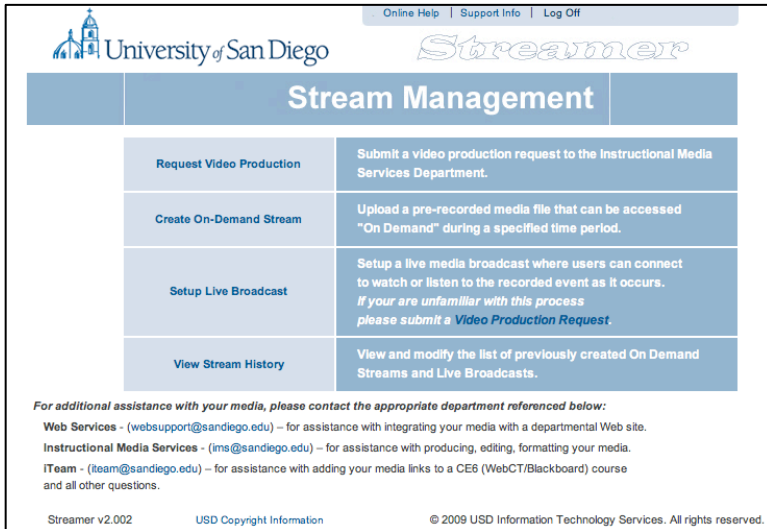
- * I hereby grant to the University of San Diego a non-exclusive, revocable, worldwide, royalty-free license to use, reproduce, distribute, transmit, perform and display the attached materials on the Streamer site and on the university's website, in whole or in part, for purposes consistent with making the attached materials available to the audience specified by me in the uploading of the materials. I agree that the University of San Diego may modify the attached materials only to the extent necessary for technology reasons.
- * To the extent I am not the owner of the intellectual property rights (copyrights, trademarks or patents) associated with the attached materials, I represent that I have obtained any and all required permissions to post the materials on the Streamer site, and that I am authorized to grant the University of San Diego a license to post any such material that is not owned by me. I understand that the University of San Diego is relying on this representation in posting the attached materials on the Streamer site.
- * I agree to be solely responsible for any claims arising out of the posting of the attached materials, including but not limited to claims of infringement, or claims arising from errors, misrepresentations or omissions in the content of the attached materials.
- * In uploading the attached materials to the Streamer site, I will comply with all applicable federal, state and other applicable law; applicable university policies and procedures; and all applicable contracts and licenses.

I agree to the terms of the user agreement

I do not agree to the terms of the user agreement

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



Stream Management	
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.

For additional assistance with your media, please contact the appropriate department referenced below:
Web Services - (websupport@san Diego.edu) – for assistance with integrating your media with a departmental Web site.
Instructional Media Services - (ims@san Diego.edu) – for assistance with producing, editing, formatting your media.
iTeam - (iteam@san Diego.edu) – for assistance with adding your media links to a CE6 (WebCT/Blackboard) course and all other questions.

Streamer v2.002 USD Copyright Information © 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)

Click on 'Create On-Demand Stream'

- Select a name for the media you are uploading (special characters will not be accepted) and decide who will be able to access the stream; all Internet users, or just the USD community (password protected stream).
- Select your start and end dates/times and stream deletion date. Note: you have the options 'Stream Does Not Expire' and 'Never Delete Stream'. You can always manage these settings at a later time (See View Stream History).
- If you are experienced with video formatting, you can enter different width and height values in the text boxes provided, but if you are unsure, just leave the default entries.

The screenshot shows a form titled "Step 1 - Provide Stream Information". It contains the following fields and options:

- Stream Name:** A text input field.
- Viewable By:** A dropdown menu.
- Available Start Time:** A date picker set to 06/15/2009 and a time picker set to 11:10 AM.
- Available End Time:** A date picker set to 06/15/2010 and a time picker set to 11:10 AM, with a checkbox for "Stream Does Not Expire".
- Stream Deletion Date:** A date picker set to 06/16/2010 and a checkbox for "Never Delete Stream".
- A note: "If unsure of these settings, please leave default values."
- Width:** A text input field with the value 480.
- Height:** A text input field with the value 420.

- Select the file you want to upload.

The screenshot shows a dialog box titled "Step 2 - Select the Stream File" with a "Choose File" button and the text "no file selected". An "Choose file" window is open, showing a file explorer view of the "Media" folder. The file list includes:

- chimes.wav
- chord.wav
- ding.wav
- flourish.mid
- notify.wav
- onestop.mid
- recycle.wav
- ringin.wav
- ringout.wav
- start.wav
- tds.wav
- town.mid
- Windows Feed Discovered.wav
- Windows Information Bar.wav
- Windows Navigation Start.wav
- Windows Pop-up Blocked.wav
- Windows XP Balloon.wav
- Windows XP Battery Critical.wav
- Windows XP Battery Low.wav
- Windows XP Critical Stop.wav
- Windows XP Default.wav
- Windows XP Ding.wav
- Windows XP Error.wav
- Windows XP Exclamation.wav
- Windows XP Hardware Inert.wav
- Windows XP Hardware Inert.wav
- Windows XP Hardware Remove.wav
- Windows XP Information Bar.wav
- Windows XP Logoff Sound.wav
- Windows XP Logon Sound.wav

The "File name" field is set to "start.wav" and the "File of type" is set to "All Files (*.*)".

- Click on Create the Stream to begin the upload process.

The screenshot shows a button labeled "Step 3 - Create the Stream" with a "Create Stream" button below it.

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 quite 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.

Stream History					
Stream Management >> Stream History					
User Login	Creation Date	Stream Name	Original File Name	Stream Type	
cburrows	6/18/2008	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	SStream320.mp4	On Demand - MPEG4	   
cburrows	4/21/2009	MSCM Cox Pt1	Dr Cox Intervie w part 1.flv	On Demand - Flash Video	   
cburrows	4/21/2009	MSCM Cox Pt2	Dr Cox Intervie w part 2.flv	On Demand - Flash Video	   
cburrows	4/21/2009	MSCM Cox Pt3	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 All ...flv	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. *Note: Preview Image feature is NOT available for QuickTime or Real Video files.*



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

Click the "Adjust" button to save your changes. AutoPlay Preview Image Frame Grab (seconds)
(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 Use / Email Link	http://streamer.sandiego.edu/Streamer/StreamPlayer.aspx?id=52b5c7n3n	Thesis 3
Direct Link	http://streamer.sandiego.edu/QuickTime/WLoXoo8TWCj1Yu.mp4	
Pop-Up		Thesis 3
Pop-Up with Logo		Thesis 3
Stand Alone	http://streamer.sandiego.edu/Streamer/StreamPlayer.aspx?id=52b5c7n3n	Thesis 3
Light Window	http://streamer.sandiego.edu/Streamer/StreamPlayer.aspx?id=52b5c7n3n	Thesis 3
Embedded in Page	<iframe src="http://streamer.sandiego.edu/Streamer/StreamPlayer.aspx?id=52b5c7n3n">	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>