Flash OSMF How To Guide

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Original Document: Flash_IDE_OSMF_LLNW_Sample.doc by Bob Wohl

Purpose: This document helps developers get started using OSMF with the Limelight Streaming Plugin in Flash CS5 IDE.

Steps to Follow

- 1. Create a new Flash AS3 .FLA and save it.
- 2. In the same directory, create a new AS3 class and name it "HelloWorld.as".
- 3. In the .FLA, open the *Publish* settings by pressing CTRL+Shift+F12.
 - a. Select the Flash tab and click on the Settings button.
 - b. In the Document Class field, type "HelloWorld".
 - c. Click the green arrow to confirm the class's location.
- 4. In the same location, select the Library path.
 - a. Include the "OSMF.swc" and the "Controls.swc".
 - b. The current version of "OSMF.swc" is located in http://www.opensourcemediaframework.com/.
- 5. Copy the example code found in this document into the "HelloWorld.as" file and save it.
- 6. Publish the Flash file by clicking CTRL+Enter.

You now should have a working player that looks like this:



Loading the Plugin with MediaFactory

This section describes the code needed to load the the Limelight Streaming plugin. This is the first step to display Flash media on the Limelight Content Delivery Network.

- 1. Create a new DefaultMediaFactory instance to load the Limelight Streaming plugin.
- 2. Add two listeners to wait for either a PLUGIN_LOAD or a PLUGIN_LOAD_ERROR event to determine the next step.
 - a. If the plugin does not load, check the path to the plugin.
- 3. Create a new URLInstance.
 - a. If testing locally, use "file://path/to/plugin.swf" format.

n a successful load of the plugin, the next step is to create the MediaContainer and MediaElement.			
rea	ati	inę	g the MediaContainer and MediaElement
atin	g th	ne N	MediaElement adds a display to the stage that plays the MediaFactory.
1.	Cr	eate	e a new MediaContainer and add it to the stage.
2.	Cr	reate	e a new StreamingURLResource to associate the path to the desired stream.
3.	Fo	or Li	imelight streams that include an instance name in the URI, set the resource's urlIncludesFMSApplicationInstance to true.
5. 6.	Liv Cr Ad	veSteate dd th	imelight plugin must know the difference between stream types in order to handle the stream. Stream types include: Progressiv tream, MBR, LiveMBR, FLVSeek or MOOVSeek. Refer to OSMF Release Notes for the full list of supported stream types. e a new <i>Metadata</i> . he values "IlnwStreamType" and the stream type, "Streaming". to the <i>StreamingURLResource</i> .
			e a new MediaElement using MediaFactory and assign it to the StreamingURLResource. he MediaElement to the MediaContainer.
11.	Ad	dd a	e a new <i>MediaPlayer</i> to play the video. I listener to watch for a MEDIA_ERROR event. n the <i>MediaElement</i> to the <i>MediaPlayer</i> .
s se	ctio	n de	ling the MediaPlayer escribes the custom controls for the OSMF streaming media. For complete documentation on available MediaPlayer controls, revolution to the OSMF streaming media.
			time display, create a listener for TimeEvent.CURRENT_TIME_CHANGE on the MediaPlayer.
ipu	ale		unie display, deale a listeriei for TimeLvent.Corrent Invitation Invitation and invitation in the investor and
			yer broadcasts the current time change event. The first two values from OSMF are the currentTime and duration which are use The second pair of values, bytesLoaded and bytesTotal, are used to display the buffer.
L			
eek			

Volume

To set the volume, pass a value between 0.1 and 1.0 to the *MediaPlayer* instance.

Play, Pause and Stop

To play, pause or stop a stream, use the following *MediaPlayer* methods:

Example source

```
volumeConstant = controlBar.volumeValue;
     mutedValue = 0;
    } else {
     mutedValue = volumeConstant;
   changeVolume(mutedValue);
 // full screen button click handler
 private function handleFullScreenClick(event:Event):void
   try {
     var isFullScreen:Boolean = (stage.displayState == StageDisplayState.FULL_SCREEN);
     stage.displayState = isFullScreen ? StageDisplayState.NORMAL :
StageDisplayState.FULL_SCREEN;
   } catch(e:Error) {
      // catch error
 private function restartMedia(event:Event):void
   mediaPlayer.seek(0);
 private function handlePlayClick(event:Event):void
    // this handles the play/pause toggle
   if (mediaPlayer.playing) {
     mediaPlayer.pause();
   } else {
     mediaPlayer.play();
  // Full screen example
 private function handleFullScreen(event:FullScreenEvent):void
   var currentPos:Number = 0;
   if (event.fullScreen) {
     // save values when going to fullScreen
      savedWidth = mediaPlayer.mediaWidth;
      savedHeight = mediaPlayer.mediaHeight;
      // set the size of the video object to the size of the stage
      container.width = stage.stageWidth;
      container.height = stage.stageHeight;
```

```
//capture width for control bar positioning.
    currentPos = stage.stageWidth;

controlBar.y = Math.floor(stage.stageHeight - controlBar.height)+1;
    controlBar.x = stage.x;
} else {
    container.width = savedWidth;
    container.height = savedHeight;
    currentPos = Math.floor(savedWidth);
    controlBar.y = Math.floor(savedHeight - (controlBar.height)+1);
}
controlBar.controlBarPlacement(currentPos);
}
}
```