



Creating Capture Schedule Files

This appendix describes the Capture Schedule file used by a live channel to specify the live and live-to-VOD events. This appendix consists of the following topics:

- [Introduction, page 1-1](#)
- [Capture Schedule File Structure and Syntax, page 1-2](#)
- [Capture Schedule File Example, page 1-3](#)

Introduction

The Capture Schedule file is an XML file that can be used to specify live and live-to-VOD events for a live channel.

The Capture Schedule file contains the following information:

- Name of the live channel
- Capture events described with the following information:
 - Publish URI—Base URI used by the VDS-OS system for publishing content. The URI always ends with the resource format (hls, hss, hds, or dash), followed by a valid manifest filename and extension (for example, index.m3u8 for an HLS resource).
 - Capture streams (belonging to one Capture Resource)—Must match the configuration that is configured in the VOSM for the live channel.
 - Action on completion—Describes the action the VDS-OS performs on completing the recording. VDS-OS supports the Notify action, which posts a notification to an external entity.

Capture Schedule Based on Live Channel Resources

The live channels configured on the VOSM defines the list of capture resources to be sourced for each channel and the publish resources for each channel.

The Capture Schedule XML file defines a list of publish resources that are treated as live-to-VOD recording requests. The live-to-VOD publish resources defined in the Capture Schedule XML file reference a capture resource defined in the live channel and can consist of all the stream profiles or a subset of the stream profiles defined for the specified capture resource.

If a publish resource references a non-existent capture resource, or if all the streams are undefined, that publish resource is marked failed and is not scheduled.

If a publish resource references an existing capture resource and a few streams are undefined for the capture resource, the publish resource is scheduled to record only the specified streams that are defined for the capture resource.

Adding a Capture Schedule File to the VDS-OS

The Capture Schedule files can be created using any ASCII text-editing tool. The Capture Schedule files are uploaded or imported for a live channel by way of the Capture Schedule page.

Capture Schedule File Structure and Syntax

The XML Schema file describes and dictates the content of the XML file. The VOSCaptureSchedule.xsd file contains the XML schema. To view or download a copy of the VOSCaptureSchedule.xsd file, see the [“Viewing or Downloading XML Schema Files” section on page 1-15](#).

Table 1-1 describes the Capture Schedule file elements.

Table 1-1 Capture Schedule File Elements

Element	Subelements	Attributes	Description
VOSCaptureSchedule	Version		Optional. Version number to specify the version of this file.
	ChannelID		Optional. Specifies the channel that the schedule is tied to.
	HLSCaptureEvent HSSCaptureEvent		Capture event for HLS or HSS. Note DASHAdaptiveTSCaptureEvent is not supported.
HLSCaptureEvent	PublishInfo SourceInfo ActionOnCompletion	StartTime EndTime	<i>StartTime</i> and <i>EndTime</i> (required) are the start and end times of the capture event.
PublishInfo	PublishURI		PublishURI is the URI used to publish the resource. This must be unique within the origin service. The format for the PublishURI is the following: <code>http://<srtn>/<asset>/<format>/</code> where <i>srtn</i> is the Service Routing Domain Name (SRDN), <i>asset</i> is the unique asset ID within the SRDN, and <i>format</i> is hls.

Table 1-1 Capture Schedule File Elements (continued)

Element	Subelements	Attributes	Description
SourceInfo	HLSCaptureResourceInput HSSCaptureResourceInput		<p>SourceInfo specifies the capture resource the Capture Event is tied to.</p> <ul style="list-style-type: none"> HLSCaptureResourceInput is used with the HLSCaptureEvent. HSSCaptureResourceInput is used with the HSSCaptureEvent. <p>There can only be one CaptureResource per CaptureEvent.</p> <p>Note DASHAdaptiveTSCaptureResourceInput is not supported.</p>
HLSCaptureResourceInput	HLSCaptureStreamInput HSSCaptureStreamInput	baseURI	<p>HLSCaptureStreamInput is used with the HLSCaptureResourceInput.</p> <p>HSSCaptureStreamInput is used with the HSSCaptureResourceInput.</p> <p>The CaptureStreamInput element is a stream associated with the Capture Resource element.</p> <p>Note <i>baseURI</i> (required) is the baseURI used for the capture resource of the live channel.</p>
ActionOnCompletion	Notify		<p>ActionOnCompletion element specifies the action to be taken after the event is completed.</p> <p>Note The Copy, Delete, and Archive subelements are not supported.</p>
Notify		Location	<p><i>Location</i> attribute (required) specifies the location to send the notification. The format is <code>http://<server></code></p>

Capture Schedule File Example

The following is an example of a Capture Schedule file:

```
<VOSCaptureSchedule xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="VOSCaptureSchedule.xsd">

  <Version>1.0</Version>

  <ChannelID>http://vos.tstv.net/tsw</ChannelID>

  <HLSCaptureEvent StartTime="2013-06-19T13:54:00" EndTime="2013-06-19T13:56:00">

    <PublishInfo>
      <PublishURI>live-vod/hls/master.m3u8</PublishURI>
    </PublishInfo>

    <SourceInfo>
      <HLSCaptureResourceInput baseURI="cr/hls">
        <HLSCaptureStreamInput>wifi1980</HLSCaptureStreamInput>
      </HLSCaptureResourceInput>
    </SourceInfo>
  </HLSCaptureEvent>
</VOSCaptureSchedule>
```

```
<ActionOnCompletion>
  <Notify Location="http://vos.tstv.net/cdvr/RecorderManager/RecordingEvent/" />
</ActionOnCompletion>

</HLSCaptureEvent>

</VOSCaptureSchedule>
```