## Virtual Channel

使用SMIL3.0的子集描述创建Virtual Channel（VC）。

**支持的tag和attribute**：参考地址：<http://www.w3.org/TR/SMIL3/smil30.html>

|  |  |
| --- | --- |
| tag | smil, header, body, seq, param, video |
| **attribute** | src, repeatCount, clipBegin, clipEnd, begin, dur, end |

smil---The [smil](http://www.w3.org/TR/SMIL3/smil30.html#smil-structure-edef-smil) element acts as the root element for all [SMIL Host Language conformant](http://www.w3.org/TR/SMIL3/smil30.html#smil-scalabilityFramework-smilScalabilityNS-Definitions) language profiles.

header---The [head](http://www.w3.org/TR/SMIL3/smil30.html#smil-structure-edef-head) element contains information that is not related to the temporal behavior of the presentation.

body --- The [body](http://www.w3.org/TR/SMIL3/smil30.html#smil-structure-edef-body) element contains information that is related to the temporal and linking behavior of the document.

seq --- A [seq](http://www.w3.org/TR/SMIL3/smil30.html#smil-timing-edef-seq) container defines a sequence of elements in which elements play one after the other.

param --- The element allows a general parameter value to be sent to a media object renderer as a name/value pair.

**Media objest:**

Video---Video clip

**attribute:**

src --- used for locating and fetching the associated media.

repeatCount --- Specifies the number of iterations of the simple duration.

clipBegin --- Normal Play Time expresses time in terms of SMIL clock values(Normal Play Time).

clipEnd --- specifies the end of a sub-clip of a continuous media object as offset from the start of the media object(Normal Play Time).

begin --- Specifies the begin time of the syncbase element (Full clock values/Partial clock value /Timecount values / wallclock[ISO8601]).

dur --- Specifies the Active End of the syncbase element(Normal Play Time).

end --- Defines an end value for the element that may constrain the active duration(Full clock values/ Partial clock value /Timecount values / wallclock[ISO8601].).

virtual channel 任务注入样例：

**注入：**

<?xml version="1.0" encoding="utf-8"?>

<root>

<serverid>1</serverid>

<reporter>http://172.16.1.37/index.php/Admin/Interface</reporter>

<file\_uuid></file\_uuid>

<task\_uuid></task\_uuid>

<guid>1234567890</guid><!--same as smil guid-->

<upload protocol="smil">

<smil xml:id="root" xmlns="http://www.w3.org/ns/SMIL" version="3.0" baseProfile="x-OSVC" >

<head xml:id="head">

<!--virtual channel metadata-->

<meta name="type" content="live" />

<meta name="guid" content="1234567890" />

<meta name="publishdate" content="2010-12-27T00:00:00Z" /> <!-- ISO8601 -->

<meta name="expiredate" content="2011-12-27T00:00:00Z" /> <!-- ISO8601 -->

<meta name="createdate" content="2010-12-27T00:00:00Z" /><!-- ISO8601 -->

<meta name="codec" content="h264" />

<meta name="format" content="flv" /> <!--flv or ts -->

<meta name="bitrate" content="500" /><!--kb -->

<meta name="server" content="flv" /> <!--flv or tss -->

<meta name="width" content="640" />

<meta name="height" content="480" />

<meta name="name" content="test channel" />

<meta name="description" content="test channel's description" />

</head>

<body xml:id="body">

<seq repeatCount="indefinite" begin="wallclock(2010-12-27T00:00:00Z)" end="wallclock(2011-12-27T00:00:00Z)">

<video src="http://streamer:3000/guid1" dur="1:00:00.00" /><!-- VOD-->

<video src="http://streamer:3000/guid2" repeatCount="2" /><!-- VOD-->

<video src="http://streamer:3000/guid3" clipBegin="5s" clipEnd="10s" /><!-- VOD-->

<video src="http://streamer:3000/guid4" begin="wallclock(19:00:00+08:00)" dur="30:00"><!--live-->

<param name="type" value="live" valuetype="data"/><!--must set type value to "live"-->

<!--play this video every day-->

<param name="period" value="day" valuetype="data"/>

<!--play this video every week-->

<param name="period" value="Sun" valuetype="data"/>

<!--play this video every month-->

<param name="period" value="01" valuetype="data"/>

</video>

<video src="http://streamer:3000/guid5" begin="wallclock(2011-02-02T20:00:00+08:00)" dur="5h" ><!--live-->

<param name="type" value="live" valuetype="data"/>

</video>

</seq>

</body>

</smil>

</upload>

</root>

**回复：**

<?xml version="1.0" encoding="utf-8"?>

<root>

<serverid>1</serverid>

<task\_uuid></task\_uuid>

<vc>

<content>

<guid>1234567890</guid>

<ctype></ctype>

<files>

<file>

<file\_uuid></file\_uuid>

<name>smil</name>

<return>0</return><!-- 0:success,nonezero: error code.-->

<errmsg>successful</errmsg><!--error message-->

</file>

</files>

</content>

</vc>

</root>