Schedule a transcoder with the Wowza Streaming Cloud REST API

Learn how to use the REST API to schedule a transcoder in the Wowza Streaming Cloud™ service to start and stop once, or on a repeating schedule.

Create a live stream or transcoder

1. Using the Wowza Streaming Cloud REST API, create a live stream or a transcoder that receives video from a source encoder and delivers the stream to a hosted page or the transcoded output to a target. For instructions, see the following tutorials:
   - Create an ABR stream and send it to a target with the Wowza Streaming Cloud REST API
   - Pass a stream through the transcoder to a target with the Wowza Streaming Cloud REST API
   - Get started with Wowza Streaming Cloud using the REST API

2. Make note of the `live_stream_id` or `transcoder_id` that Wowza Streaming Cloud creates for your stream. You’ll need it to schedule the broadcast.

Create a schedule

Create a schedule to start and stop the live stream or transcoder.

When specifying the start time, allow a few minutes for Wowza Streaming Cloud to launch the stream or transcoder. If your event begins at 9:00, for example, set the start time for 8:55. The minimum run time for a scheduled live stream or transcoder is 5 minutes, but we recommend scheduling at least 10 minutes between start and stop.

Schedule parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>action_type</td>
<td>string</td>
<td>The schedule can either start, stop, or start and stop a transcoder. The default is <strong>start</strong>. Other valid values are <strong>stop</strong> and <strong>start_stop</strong>.</td>
</tr>
<tr>
<td>---------------------</td>
<td>--------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>end_repeat</td>
<td>string</td>
<td>If <code>recurrence_type</code> is <strong>recur</strong>, the month, day, and year that the recurring schedule stop running. Specify <strong>YYYY-MM-DD</strong>.</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>A descriptive name for the schedule. Maximum 255 characters.</td>
</tr>
<tr>
<td>recurrence_data</td>
<td>string</td>
<td>If <code>recurrence_type</code> is <strong>recur</strong>, the day or days of the week that the recurring schedule should start or stop the transcoder. Valid values are <strong>sunday</strong>, <strong>monday</strong>, <strong>tuesday</strong>, <strong>wednesday</strong>, <strong>thursday</strong>, <strong>friday</strong>, <strong>saturday</strong>, and <strong>sunday</strong>.</td>
</tr>
<tr>
<td>recurrence_type</td>
<td>string</td>
<td>A schedule can run one time only (<strong>once</strong>) or repeat weekly or on multiple days of the week (<strong>recur</strong>) until a specified end date. The default is <strong>once</strong>.</td>
</tr>
<tr>
<td>start_repeat</td>
<td>string</td>
<td>If <code>recurrence_type</code> is <strong>recur</strong>, the month, day, and year that the recurring schedule should go into effect. Specify <strong>YYYY-MM-DD</strong>.</td>
</tr>
<tr>
<td>start_transcoder</td>
<td>string</td>
<td>If <code>action_type</code> is <strong>start</strong>, the month, day, year, and time of day that the transcoder should start running. Specify <strong>YYYY-MM-DD HH:MM:SS</strong> where <strong>HH</strong> is a 24-hour clock in UTC.</td>
</tr>
<tr>
<td>stop_transcoder</td>
<td>string</td>
<td>If <code>action_type</code> is <strong>stop</strong>, the month, day, year, and time of day that the transcoder should stop running. Specify <strong>YYYY-MM-DD HH:MM:SS</strong> where <strong>HH</strong> is a 24-hour clock in UTC.</td>
</tr>
<tr>
<td>transcoder_id</td>
<td>string</td>
<td>The unique alphanumeric string that identifies the transcoder or live stream being scheduled.</td>
</tr>
</tbody>
</table>

**Example requests**

A schedule to start a transcoder once

The following request generates schedule that starts transcoder **1234abcd** at 8pm UTC (20:00) on December 26, 2015.
The request creates a schedule with an id parameter. By default, the schedule state is enabled. The details of the configured schedule are listed in the response, which should look something like this:

```
{
    "schedule": {
        "action_type": "start",
        "id": "5678efgh",
        "name": "StartOneTimeSchedule",
        "recurrence_type": "once",
        "start_transcoder": "2015-12-26T12:00:00.000",
        "state": "enabled",
        "transcoder_id": "1234abcd",
        "updated_at": "2015-11-25T11:53:28.508"
    }
}
```

A schedule to stop a transcoder once

The following request generates a schedule that stops transcoder 1234abcd at 9pm UTC (21:00) on December 26, 2015, an hour after the transcoder starts.
The request creates a schedule with an *id* parameter. By default, the schedule *state* is **enabled**. The details of the configured schedule are listed in the response, which should look something like this:

```
{
    "schedule": {
        "action_type": "stop",
        "created_at": "2015-11-25T11:54:28.508",
        "id": "9123wxyz",
        "name": "StopOneTimeSchedule",
        "recurrence_type": "once",
        "state": "enabled",
        "stop_transcoder": "2015-10-26T13:00:00.000",
        "transcoder_id": "1234abcd",
        "updated_at": "2015-11-25T11:54:28.508"
    }
}
```

A schedule to start and stop a transcoder for a one-time stream

The following request generates schedule that starts transcoder **1234abcd** at 1pm UTC (13:00) on February 10, 2016 and stops the transcoder three hours later, at 4pm UTC (16:00) on February 10, 2016.
A schedule to start a transcoder on Tuesdays and Thursdays for two weeks
The following request generates schedule that starts transcoder 1234abcd at 1pm UTC (13:00) every Tuesday and Thursday for the first two weeks of January 2016.

A schedule to stop a transcoder every day for a week
The following request generates schedule that stops transcoder 1234abcd at 2pm UTC (14:00) every day for seven days starting on February 10, 2016.
Enable or disable a schedule

By default, the state of every new schedule is **enabled**, which means the schedule will run automatically at the date and time specified. You can, however, disable and enable any schedule at any time.

Disable a schedule:

```
curl -X PUT
-H "wsc-api-key: ${WSC_API_KEY}"
-H "wsc-access-key: ${WSC_ACCESS_KEY}"
"${WSC_HOST}/api/${WSC_VERSION}/schedules/[schedule_id]/disable"
```

Enable a schedule:

```
curl -X PUT
-H "wsc-api-key: ${WSC_API_KEY}"
-H "wsc-access-key: ${WSC_ACCESS_KEY}"
"${WSC_HOST}/api/${WSC_VERSION}/schedules/[schedule_id]/enable"
```

Related requests

View a schedule's state:
Possible schedule states are **enabled**, **disabled**, and **expired**.

View the details of a schedule:

Update a schedule's configuration:

Delete a schedule: