The Wowza Streaming Cloud™ service can connect to H.264 or H.265/HEVC encoders that support the Secure Reliable Transport (SRT) protocol. SRT is an open source video transport protocol that is designed to deliver secure, high-quality, low latency live streams over unpredictable network conditions. This article describes how to use an SRT encoder as the video source for a Wowza Streaming Cloud stream.

**Notes:**
- Closed Captions and Source Security aren’t available for SRT.
- Wowza Streaming Cloud supports SRT version 1.1.

### Create a live stream

**Note:** The Live Stream Type and Billing Mode can’t be changed after the live stream is created.

1. Sign in to Wowza Streaming Cloud.
2. Click the Live Streams menu, and then click Add Live Stream.
3. On the Live Stream Setup page, enter a Live Stream Name, choose a Broadcast Location, and then click Next.
4. On the Video Source and Transcoder Settings page, select Other SRT as the...
video source you want to use to connect to Wowza Streaming Cloud.

5. For **Live Stream Type**, select **Adaptive bitrate**. Alternatively, select **Passthrough** to send the source video directly to the hosted page or other target without performing transcoding.
6. For **Closed Captions**, use the default setting, **None**. **Closed Captions** aren’t available for SRT.
7. Specify the other video source settings, and then click **Next**.
8. Complete the steps to finish creating the live stream.

**Note:** For more information about live stream settings, see the **Help panel** on the right side of each page.

Wowza Streaming Cloud creates the live stream and displays the **Overview** tab of the live stream detail page.

**Set up the SRT encoder for the live stream**

Make sure you have the latest firmware for your encoder installed. See the encoder’s user guide for details about how to update firmware as well as how to operate the device and how to specify settings such as resolution, bitrate, and frame rate.

See the **Source Connection Information** values on the **Overview** tab of the live stream detail page for the information that your encoder needs to connect to Wowza Streaming Cloud.

**Test the live stream connection**

1. In Wowza Streaming Cloud, select the live stream that uses the SRT encoder as its video source.
2. Click **Start Live Stream** at the top of the live stream detail page.
3. Click **Start** to confirm that you want to start the stream.
4. Start the encoder.
5. In Wowza Streaming Cloud, confirm that the stream is working by looking at the **Video Thumbnail** on the **Overview** tab of the live stream detail page.

The **Video Thumbnail** displays a frame from the stream every five seconds. The started date and time appear at the bottom of the thumbnail. Connection, transcoding, and delivery metrics begin to update in the **Statistics** panel.

6. Click **Stop Live Stream** at the top of the live stream detail page to end your test stream, and then stop the encoder.

### Create a transcoder

**Note:** The **Transcoder Type** and **Billing Mode** can’t be changed after the transcoder is created.

1. Sign in to Wowza Streaming Cloud.
2. Click **Advanced** on the menu bar, click **Transcoders**, and then click **Add Transcoder**.

3. On the **Transcoder Setup** page, enter a descriptive **Transcoder Name**.
4. For **Transcoder Type**, choose **Adaptive bitrate**. Alternatively, select...
**Passthrough** to send the source video directly to the hosted page or other target without performing transcoding.

5. Select a **Broadcast Location** that’s as close as possible to where your stream will originate, and select whether or not you want to record the stream as it passes through the transcoder.

6. For **Closed Captions**, leave the default setting, **None**. **Closed Captions** aren’t available for SRT.

7. For **Source Protocol**, select **SRT**.

8. For Source Delivery Method, select **Push to Wowza Streaming Cloud** to send the stream to the transcoder at its **Broadcast Location**.

9. Specify the other transcoder setup options.

For more information on the options, see the **Help** panel on the right side of the page.

10. Click **Add**.

    Wowza Streaming Cloud creates the transcoder and displays the **Outputs & Targets** tab of the transcoder detail page.

11. Complete the transcoder by adding output renditions and stream targets. For more information, see **Create a custom transcoder with many outputs and targets in Wowza Streaming Cloud**.

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**Set up the SRT encoder for the transcoder**

Make sure you have the latest firmware for your encoder installed. See the encoder’s user guide for details about how to update firmware as well as how to operate the device and how to specify settings such as resolution, bitrate, and frame rate.

See the **Host Server** and **Host Port** values on the **Transcoder Setup** tab of the transcoder detail page for the information that your encoder needs to connect to Wowza Streaming Cloud.

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**Test the transcoder connection**
1. In Wowza Streaming Cloud, select the transcoder that uses the SRT encoder as its video source.
2. Click **Start Transcoder** at the top of the transcoder detail page.
3. Click **Start** to confirm that you want to start the stream.
4. Start the encoder.
5. In Wowza Streaming Cloud, confirm that the stream is working by looking at the **Video Thumbnail** on the **Overview** tab of the transcoder detail page.

The **Video Thumbnail** displays a frame from the stream every five seconds. The started date and time appear at the bottom of the thumbnail. Connection, transcoding, and delivery metrics begin to update in the **Statistics** panel.

6. Click **Stop Transcoder** at the top of the transcoder detail page to end your test stream, and then stop the encoder.

**More resources**

- Get started with Wowza Streaming Cloud
- Wowza Streaming Cloud user guide
- Encoding best practices for Wowza Streaming Cloud