Connect a UDP encoder to Wowza Streaming Cloud

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The Wowza Streaming Cloud™ service can connect to any H.264 encoder that supports the User Datagram Protocol (UDP). This article describes how to use a UDP-based encoder as the video source for a Wowza Streaming Cloud stream.

**Note:** UDP ingest is available for the transcoder workflow but not the ultra low latency workflow in Wowza Streaming Cloud.

Create a transcoder that uses a UDP-based encoder as the video source

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. Subscription plans that support passthrough streaming require that you specify a Transcoder Type. For all other subscription plans, transcoders are adaptive bitrate.

   For Transcoder Type, choose Adaptive bitrate or Passthrough, depending on your streaming needs and subscription plan. Then choose a Billing Mode.

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

5. For Closed Captions, choose None, CEA-608, onTextData, or CEA-608 and
6. For **Source Protocol**, select **UDP**.

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

**Note:** **Pull from a source URL** and **Push to an existing stream source** aren’t available for UDP streams.

8. Specify other transcoder setup options. For more information on the options, see the **Help** panel on the right side of the page.

**Note:** **Source Security** isn’t available for UDP streams.

9. Click **Add**.

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

10. Complete the transcoder by adding output renditions and stream targets. For instructions, see one of the following articles, depending on whether you’re creating an adaptive bitrate or passthrough transcoder:

   - Create a custom transcoder with many outputs and targets in Wowza Streaming Cloud
   - Create a passthrough live stream or transcoder in Wowza Streaming Cloud

### Set up the UDP encoder

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...
Test the connection

1. In Wowza Streaming Cloud, select the transcoder that uses the UDP 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.

   ![Video Thumbnail](image)

   ![Statistics](image)

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