

Deliver WebRTC streams to viewers for HLS playback using Wowza Video

Updated on 02/07/2023 12:29 pm PST

Learn how to use the Wowza Video™ service to deliver WebRTC streams to viewers through a CDN for playback over HLS.

To learn about other live stream or transcoder settings you might see in the user interface, see [Live Stream Setup page in Wowza Video](#) or [Transcoder Setup page in Wowza Video](#).

You'll need to choose which workflow you'll use, **live stream** or **transcoder**, before you begin this task. See [Decide between a live stream or transcoder workflow](#) for more information about these workflows.

About HLS playback

With Wowza Video, you can ingest a single-bitrate WebRTC source stream, transcode the stream into multiple output renditions, and then deliver the stream to viewers through a CDN for playback over HLS. WebRTC lets you capture video from your browser without installing plug-ins or downloading third-party software.

Note: As an alternative, Wowza Video also provides direct playback URLs for RTMP, RTSP, WebRTC, and WOWZ that you can use to deliver live streams to viewers or other video services directly from the transcoder. For more information, see [WebRTC workflows in Wowza Video](#).

To deliver a WebRTC stream to viewers for playback over HLS, create an adaptive bitrate live stream, give the hosted player page URL to your viewers, and then publish the stream using the WebRTC hosted publish page.

Live stream workflow

1. Create a live stream

In the live stream workflow, we'll automatically configure the transcoder, output renditions, and stream targets to get you started quickly. This is the preferred workflow for most of our customers.

1. Sign in to Wowza Video.
2. 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 **Web Browser (WebRTC)** as the video source you want to use to connect to Wowza Video.
5. For **Live Stream Type**, use the default setting, **Adaptive bitrate (Recommended)**. Alternatively, select **Passthrough** to send the source video directly to the hosted page or other target without performing transcoding.
6. Specify the other video source settings. Then click **Next**.

Note: For WebRTC, we recommend keeping the default **Input Resolution** of 1280x720.

7. Specify the playback settings. Then click **Next**.
8. Customize the hosted page that your viewers can use to watch the live stream. Then click **Next**. For more information, see [Create and manage live streams in Wowza Video](#).
9. Complete the steps to finish creating the live stream.

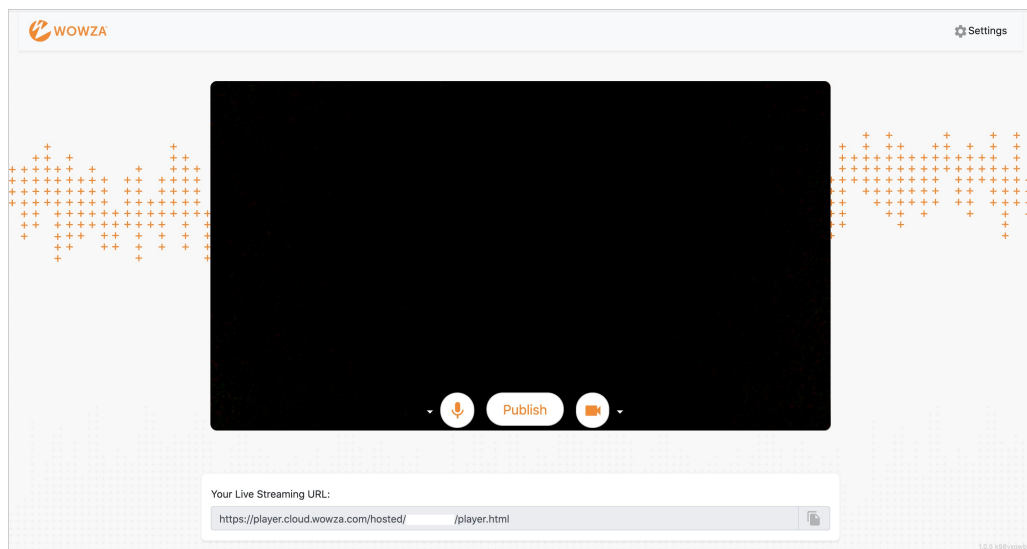
Wowza Video creates the live stream and displays the **Overview** tab of the live stream details page.

2. Publish the WebRTC stream

Next, start the live stream in Wowza Video, and then use the WebRTC hosted publish page to begin broadcasting to your viewers.

1. In Wowza Video, start the live stream by doing one of the following:
 - Click **Start Live Stream** at the top of the live stream details page.
 - Click **Start your live stream now** in the **Video Thumbnail** on the **Overview** tab.
2. On the **Overview** tab, under **WebRTC Publish Page**, click the publish page link.

Note: The WebRTC hosted publish page is supported on the latest versions of Chrome, Safari, and Microsoft Edge version 79 and later.



The publish page opens in a new tab. Grant access to your camera and microphone when prompted.

- **Settings** – Wowza Video automatically configures the settings for the live stream. To view or edit the settings, click the **Settings** button.
- **Microphone** – Mute/unmute your microphone. To change which microphone to use, click the arrow next to the microphone icon.
- **Video camera** – Enable/disable the video source. To change the video source, click the arrow next to the video camera icon. To share your screen, select **Screen Share**.

Notes:

- The video source can't be changed after the broadcast is started.
- Screen share functionality isn't supported on mobile devices or Safari.

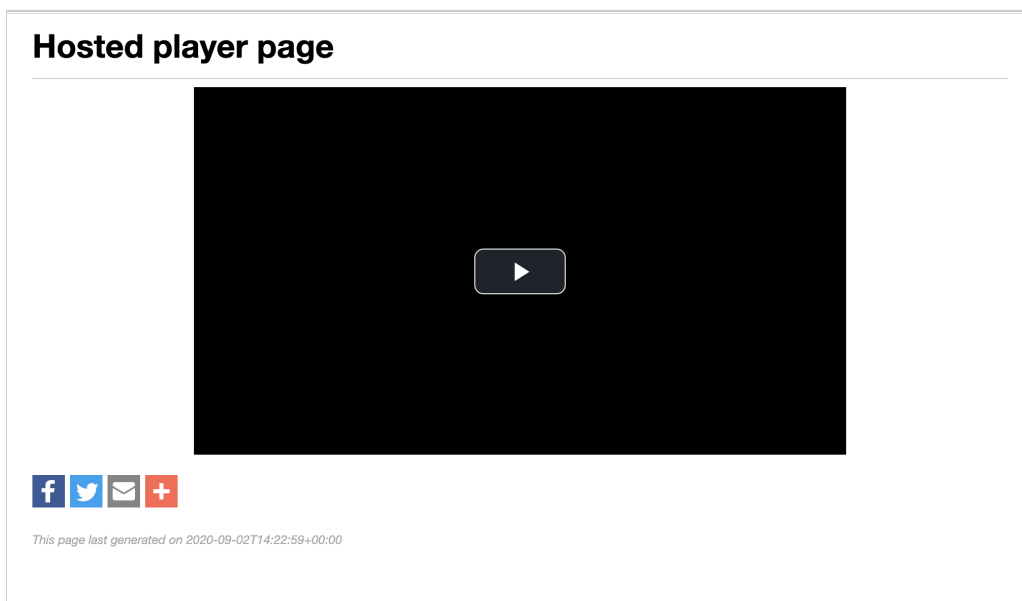
- **Live Streaming URL** – The address of the hosted player page, if you created one.

3. Click **Publish**.

3. Play the live stream

You can give the **Hosted Page URL** to your viewers so they can watch the live stream. This page can also be used for testing purposes. To test the connection using the hosted player, do the following:

1. On the **Overview** tab, under **Hosted Page URL**, click the hosted page link.



2. Click the **Play** button.

4. Stop the live stream

To avoid incurring additional billing charges, remember to stop the live stream after the stream broadcast is over. In Wowza Video, click **Stop Live Stream** at the top of the live stream details page.

Transcoder workflow

1. Create a transcoder

In the transcoder workflow, you'll manually configure the transcoder, output renditions, and stream targets to fit your specific streaming solution.

1. Sign in to Wowza Video.
2. Under **Advanced** in the left navigation bar, click **Transcoders**, and then click **Add Transcoder**.
3. On the **Transcoder Setup** page, enter a descriptive **Transcoder Name**.

4. For **Transcoder Type**, select **Adaptive bitrate (Recommended)**. Alternatively, select **Passthrough** to send the source video directly to a target without performing transcoding.

Note: To include audio in recordings and VOD streams, the **Transcoder Type** must be set to **Adaptive bitrate**.

5. Select a **Broadcast Location** that's as close as possible to where your stream will originate.
6. For **Closed Captions**, use the default setting, **None**.
7. For **Source Protocol**, select **WebRTC**.
8. Specify the other transcoder settings.
9. Click **Add**.

Wowza Video creates the transcoder and displays the **Outputs & Targets** tab of the transcoder details page. An output for WebRTC playback is created automatically, but you'll create additional output renditions in the next step to use for HLS playback.

10. Complete the transcoder by adding output renditions and stream targets. Make note of the HLS playback URL on the **Playback URLs** tab of the stream target's details page. You'll can use the URL for testing playback in the next step.

For more information, see [Create a custom transcoder with many outputs and targets in Wowza Video](#).

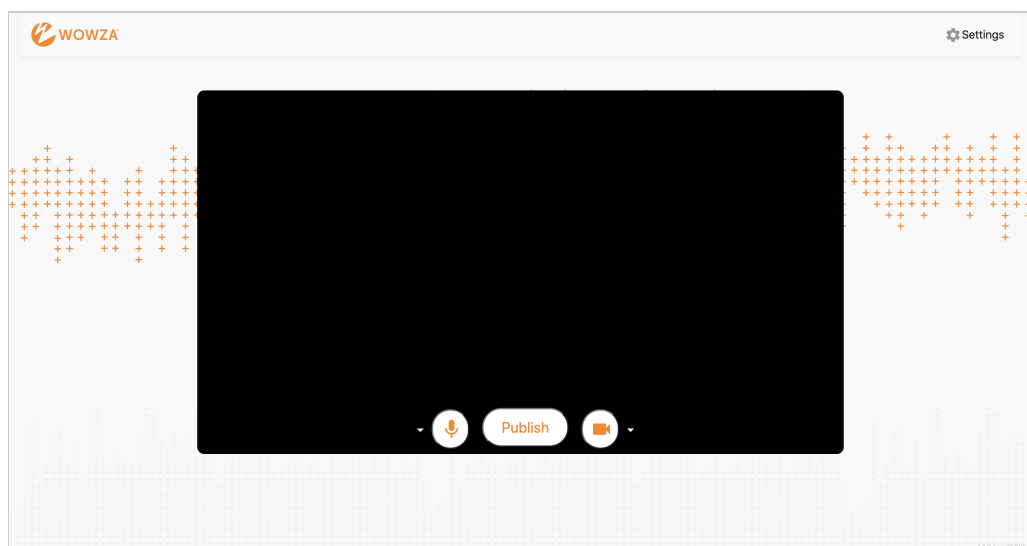
2. Test the connection

1. In Wowza Video, start the transcoder by doing one of the following:

- Click **Start Transcoder** at the top of the transcoder details page.
- Click **Start your transcoder now** in the **Video Thumbnail** on the **Overview** tab.

2. On the **Overview** tab, under **WebRTC**, click the **Publish Page** link.

Note: The WebRTC hosted publish page is supported on the latest versions of Chrome, Safari, and Microsoft Edge version 79 and later.



The publish page opens in a new tab. Grant access to your camera and microphone when prompted.

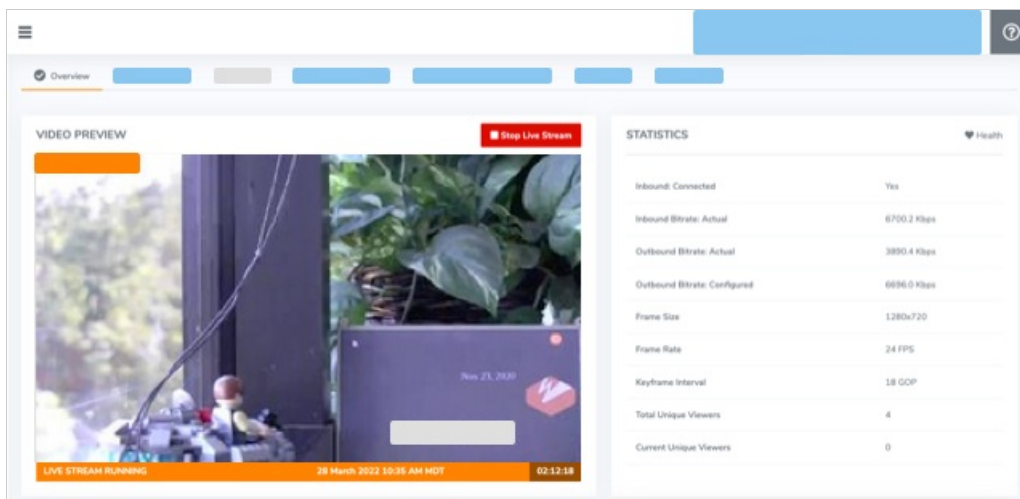
- **Settings** – Wowza Video automatically configures the settings for the live stream. To view or edit the settings, click the **Settings** button.
- **Microphone** – Mute/unmute your microphone. To change which microphone to use, click the arrow next to the microphone icon.
- **Video camera** – Enable/disable the video source. To change the video source, click the arrow next to the video camera icon. To share your screen, select **Screen Share**.

Notes:

- The video source can't be changed after the broadcast is started.
- Screen share functionality isn't supported on mobile devices or Safari.

3. Click **Publish**.
4. In the Wowza Video web manager, confirm that the live stream is playing by looking at the **Video Preview** in the **Overview** tab of the **Transcoder Details** page.

The video preview displays a frame from the live stream every 5 seconds. The started date and time appear under the preview. Source stream, transcoder, and delivery metrics begin to update.



Alternatively, you can use the HLS playback URL to configure the stream for playback in an HLS-compatible player. The URL is located on the **Playback URLs** tab of the stream target's details page.

5. Click **Stop Transcoder** at the top of the transcoder details page to end your test stream.

Note: Billing charges are incurred while the transcoder is running.

More resources

- [WebRTC workflows in Wowza Video](#)
- [Deliver WebRTC streams to viewers using Wowza Video](#)
- [Include closed captions in a live stream or transcoder in Wowza Video](#)