Connect an Axis network camera to Wowza Streaming Cloud
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Professional network cameras from Axis Communications allow you to capture live video over the Internet for video surveillance and security. This article describes how connect an Axis network IP camera and send the feed to the Wowza Streaming Cloud™ service for transcoding and playback.

You can set up the Axis network camera first, or set up the live stream in Wowza Streaming Cloud first. Either way, when you start the live stream in Wowza Streaming Cloud, it will periodically try to connect to the camera until the camera comes online.

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Create a live stream that uses an Axis network camera as the video source

If you haven’t already done so, create a live stream in Wowza Streaming Cloud that uses an Axis network camera as the video source.

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 Axis as the camera you want to use to connect to Wowza Streaming Cloud.
5. Enter the camera’s **Source URL**, which should be in the form `rtsp://[username]:[password]@[ip_address]/axis-media/media.amp`. See your Axis camera user guide or the Axis [online helpdesk](https://www.axis.com) for details about the camera’s IP address.

6. Specify other video source settings, and make sure to select the same **Aspect Ratio** that you use in your camera settings.

7. Click **Next**, and 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 Axis camera

Make sure you have the latest firmware for your camera installed. Again, see your Axis camera user guide or the Axis [online helpdesk](https://www.axis.com) for details about how to operate the camera and adjust settings such as resolution, bitrate, and frame rate.

When streaming from an Axis network camera to Wowza Streaming Cloud, set the camera’s keyframe interval to 60 fps for NTSC or 50 fps for PAL.

### Test the connection

1. In Wowza Streaming Cloud, select the live stream that uses the Axis camera 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.

   Wowza Streaming Cloud opens the stream and connects with the camera.

4. In the **Axis Media Control viewer toolbar**, start the camera.
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 live 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 Axis camera.

### More resources

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