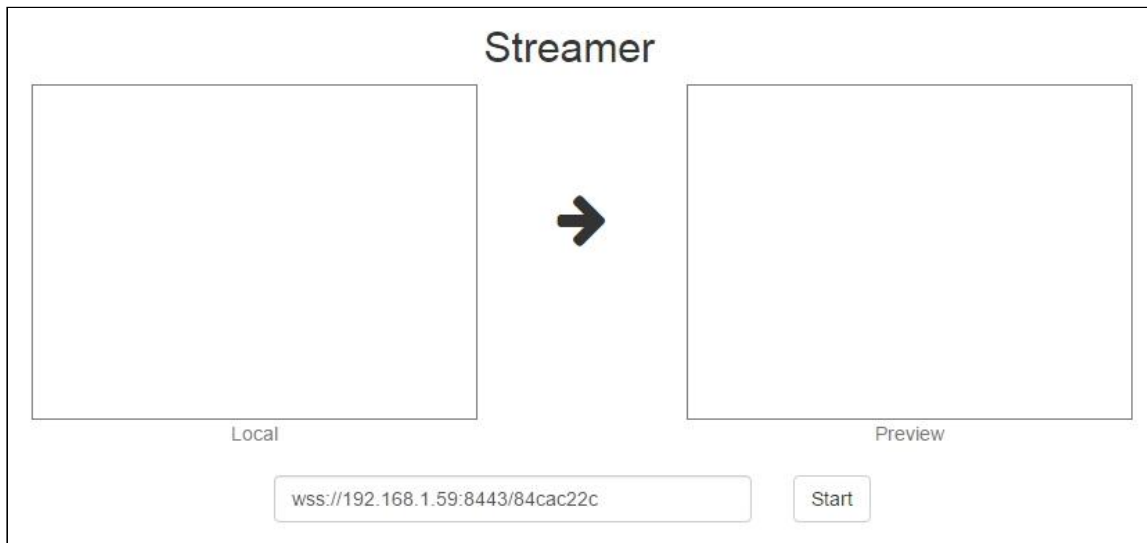


Invoking a REST method

Let us take a look at operation of REST method through the example of the `/publishStream` method.

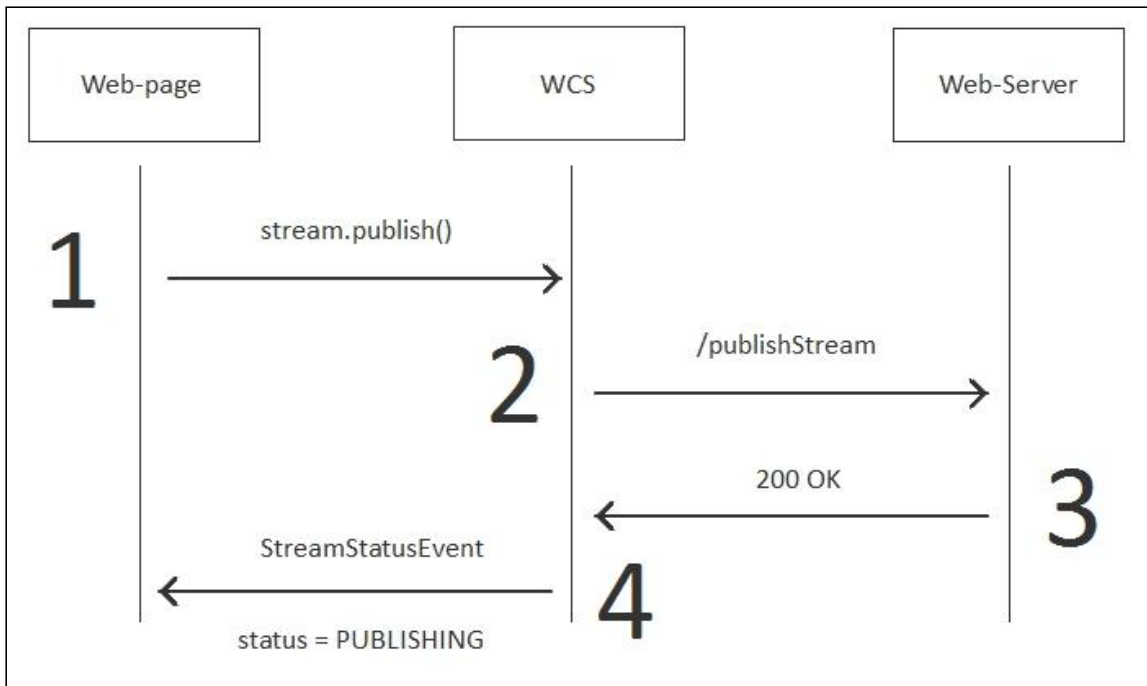
A user sends a video stream to the WCS server with Streamer test web application



Upon clicking the `Start` button, the web page invokes the `Stream.publish()` function that begins broadcasting.

Here is a step-by-step diagram of publishing and invoking the `publishStream` REST method:

1. `Stream.publish()` is invoked on the client side
2. WCS queries the internal backend server at `http://localhost:8081/apps/EchoApp/publishStream`
3. WCS receives `200 OK` response from the internal backend server
4. WCS sends the `StreamStatusEvent` event to the client with `status: "PUBLISHING"`



The final result is the **PUBLISHING** status displayed on the web page:



Invocation of the **/publishStream** method (step 2) looks as follows when the HTTP protocol is analyzed in Wireshark:

REST hook

```

POST /EchoApp/publishStream HTTP/1.1
Accept: application/json
Content-Type: application/json;charset=UTF-8
User-Agent: Java/1.8.0_45
  
```

```
Host: localhost:8081
Connection: keep-alive
Content-Length: 3622

{
  "nodeId": "H4gfHeULtX6ddGGUWwZxhUNyqZHUFH8j@192.168.1.59",
  "appKey": "defaultApp",
  "sessionId": "/192.168.1.38:52791/192.168.1.59:8443",
  "mediaSessionId": "87c5ff20-fb59-11e6-812c-1b28ccb49323",
  "name": "84cac22c",
  "published": true,
  "hasVideo": true,
  "hasAudio": true,
  "status": "PUBLISHING",
  "record": false,
  "width": 0,
  "height": 0,
  "bitrate": 0,
  "quality": 0,
  "mediaProvider": "WebRTC"
}
```

Backend response

```
HTTP/1.1 200 OK
Content-Type: application/json;charset=UTF-8
Transfer-Encoding: chunked
Date: Sat, 25 Feb 2017 05:51:11 GMT

{
  "nodeId": "H4gfHeULtX6ddGGUWwZxhUNyqZHUFH8j@192.168.1.59",
  "appKey": "defaultApp",
  "sessionId": "/192.168.1.38:52791/192.168.1.59:8443",
  "mediaSessionId": "87c5ff20-fb59-11e6-812c-1b28ccb49323",
  "name": "84cac22c",
  "published": true,
  "hasVideo": true,
  "hasAudio": true,
  "status": "PUBLISHING",
  "record": false,
  "width": 0,
  "height": 0,
  "bitrate": 0,
  "quality": 0,
  "mediaProvider": "WebRTC"
}
```