

Invoking a REST method

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

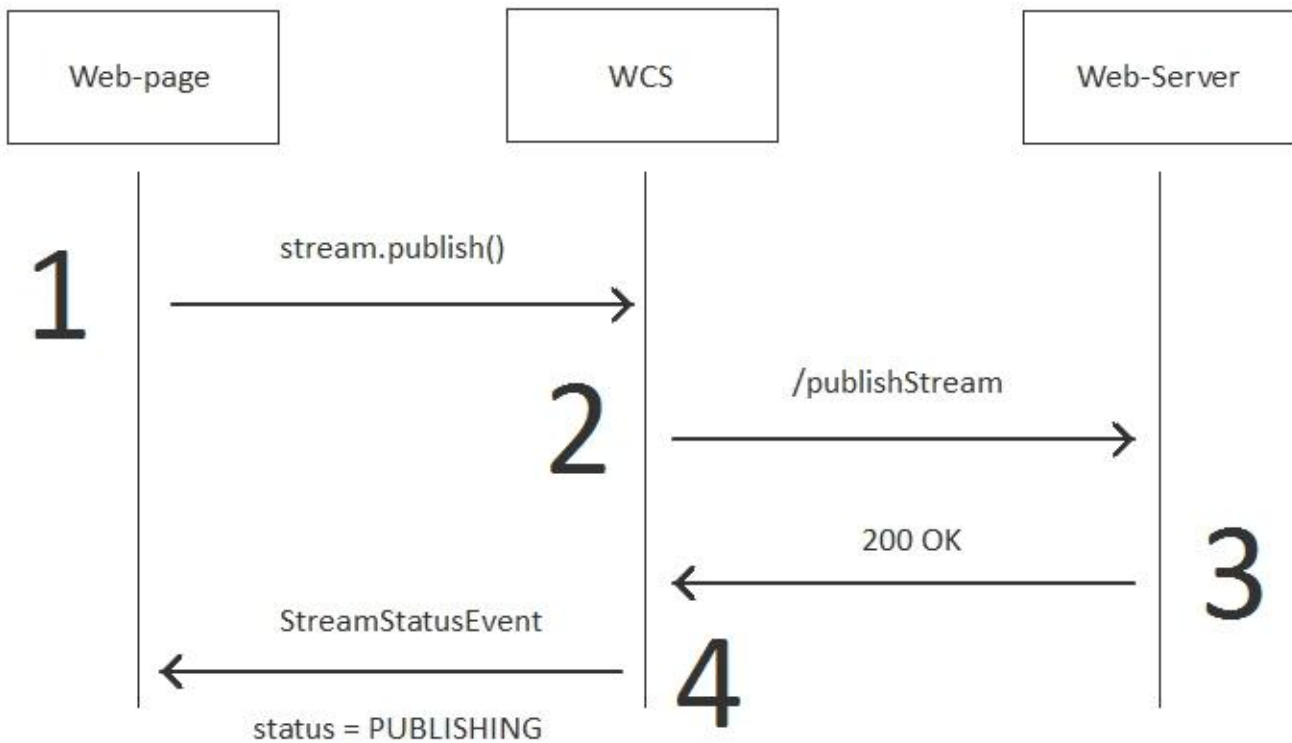
In the test interface of Streamer, a user sends a video stream to the WCS server.



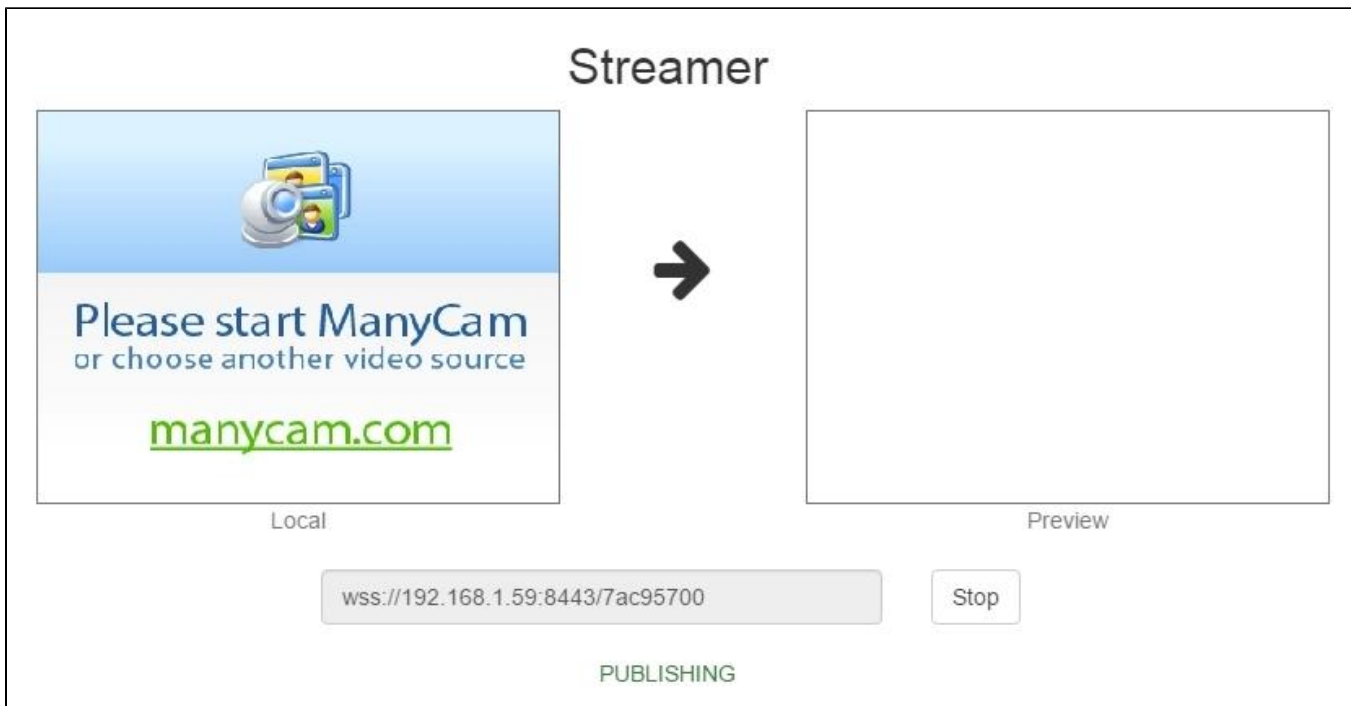
Upon clicking the Start button, the interface invokes the `stream.publish()` function that begins broadcasting.

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 local web server at `http://localhost:8081/apps/publishStream`
3. WCS receives 200 OK response from the local server
4. WCS sends the `StreamStatusEvent` event to the client, `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:

Request	Response
---------	----------

```
POST /EchoApp/publishStream HTTP/1.1
Accept: application/json, 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": "PENDING",
  "record": false,
  "width": 0,
  "height": 0,
  "bitrate": 0,
  "quality": 0,
  "mediaProvider": "WebRTC"
}
```

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
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": "PENDING",
  "record": false,
  "width": 0,
  "height": 0,
  "bitrate": 0,
  "quality": 0,
  "mediaProvider": "WebRTC"
}
```