

# Stream availability for playback

Sometimes it is necessary to check if stream is published on server before playing the stream. This can be done by one of the following ways

## WebSDK function `Stream.available()`

Stream availability can be checked using WebSDK function `Stream.available()`. This function returns a promise that will be resolved if stream with the given name is published on server, and will be rejected if not. A special stream should be created to invoke the function, stream name to check and page element to display should be passed to `Session.createStream()` function. This special stream will automatically be destroyed after promise resolution or rejection,

`Stream.available()` usage example is available in [Two Way Streaming](#) application source code:

```
function availableStream(){
  var session = Flashphoner.getSessions()[0];
  var streamName = $('#playStream').val();
  session.createStream({
    name: streamName,
    display: remoteVideo
  }).available().then(function(stream){
    $("#availableStatus").text("AVAILABLE").attr("class", "text-
success");
  }, function(stream){
    $("#availableStatus").text("UNAVAILABLE").attr("class", "text-
danger");
  });
}
```

This method works in CDN, including [transcoded](#) streams, if stream name to check is passed with profile name. In this case promise can be rejected if stream is available on server, but is protected with [ACL key](#).

## REST API query `/stream/find`

If the first method cannot be used for some reason, stream availability on server can be checked with [REST API](#) query `/stream/find`. The request should be sent directly to the server stream supposed to be played from. If the stream with given name is published on this server, it will respond `200 OK`:

## Request

```
POST /rest-api/stream/find HTTP/1.1
Host: 192.168.1.101:8081
Content-Length: 40
Content-Type: application/json

{
  "name": "stream1",
  "published": true
}
```

## Response

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Content-Type: application/json;charset=UTF-8
Date: Tue, 28 Mar 2017 16:05:16 GMT

[
  {
    "custom": {},
    "nodeId": null,
    "appKey": "defaultApp",
    "sessionId": "/192.168.1.102:34500/192.168.1.101:8080",
    "mediaSessionId": "4f112b20-13d0-11e7-b521-59a9cb7eddeb",
    "remoteMediaElementId": null,
    "name": "stream1",
    "published": true,
    "hasVideo": true,
    "hasAudio": true,
    "status": "PUBLISHING",
    "sdp": ".....",
    "info": null,
    "record": true,
    "recordName": "stream-4f112b20-13d0-11e7-b521-59a9cb7eddeb-7371rm8t053nlg8c2n23ctco33.mp4",
    "width": 0,
    "height": 0,
    "bitrate": 0,
    "quality": 0,
    "rtmpUrl": null,
    "streamInfo": {
      "custom": {},
      "nodeId": null,
      "appKey": null,
      "sessionId": null,
      "mediaSessionId": "4f112b20-13d0-11e7-b521-59a9cb7eddeb",
      "name": "stream1",
      "samplingTime": 1490717116551,
      "recordTimestamp": 7640,
      "recordStarted": true
    },
    "mediaProvider": "Flash"
  }
]
```

```
}  
]
```

This method works only for streams already published on the requested server.