

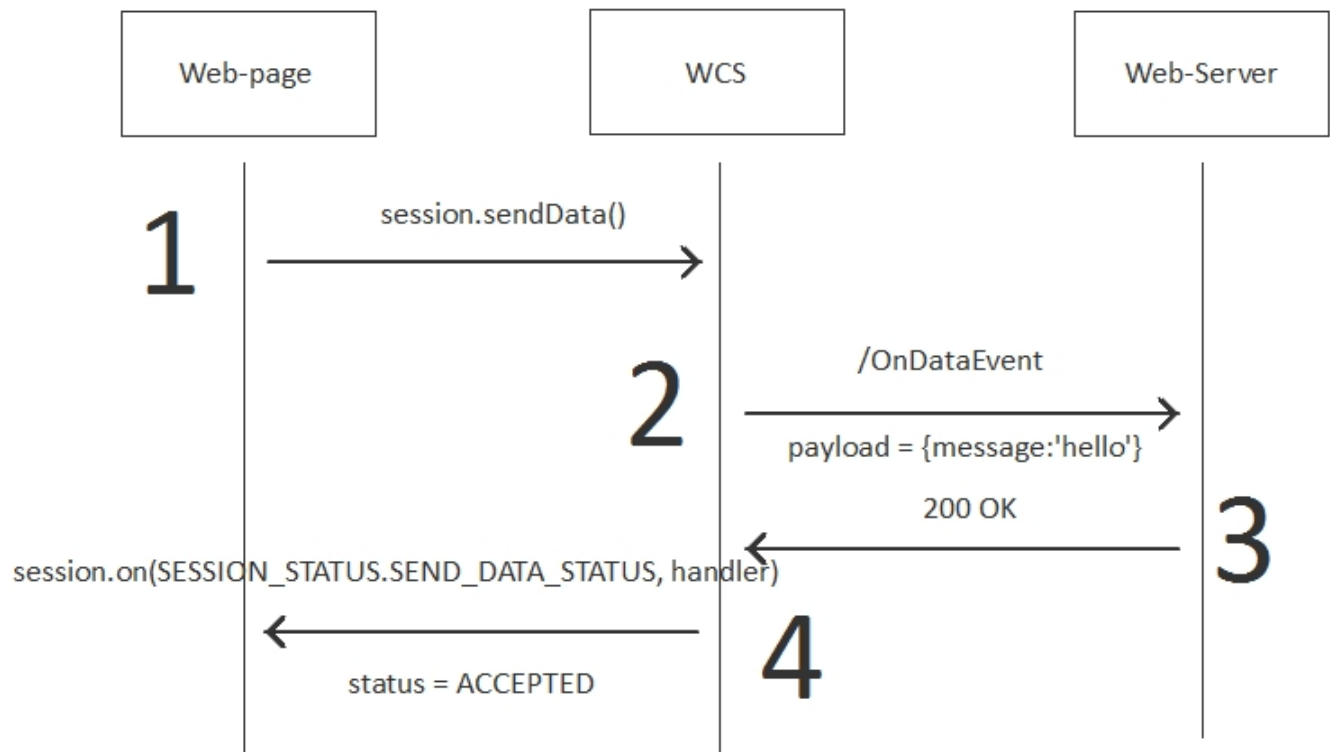
Data exchange - OnDataEvent

- Sending data to the server
 - Error handling
- Sending data to connected client

Sending data to the server

Client can send an arbitrary data-object to server using the direct method `sendData()` - step 1.

Web-server will invoke REST-method `/OnDataEvent` - step 2. As a result, client will receive status `SESSION_STATUS.SEND_DATA_STATUS ACCEPTED` - step 4.



Example:

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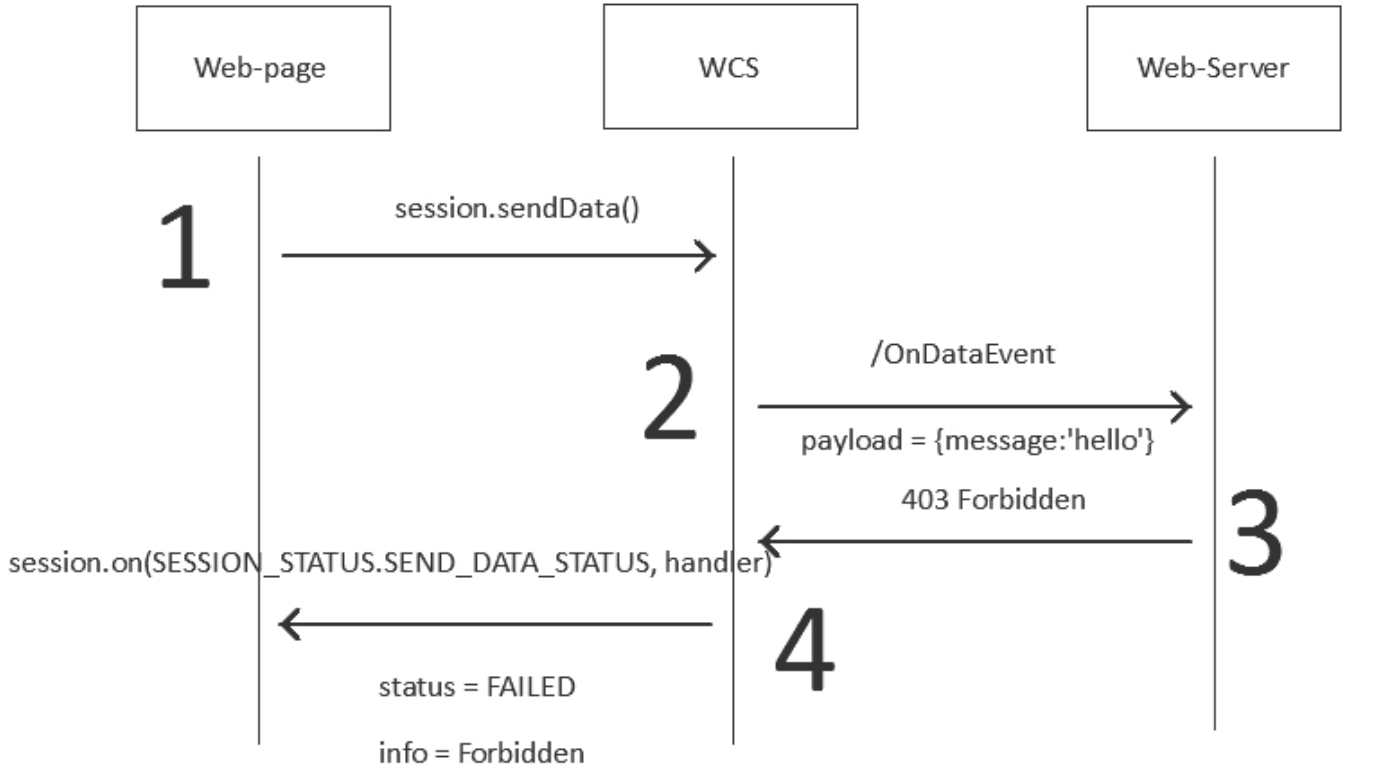
<pre> POST /rest/my_api/OnDataEvent HTTP/1.1 Accept: application/json, application/*+json Content-Type: application/json;charset=UTF-8 User-Agent: Java/1.8.0_111 Host: 192.168.1.101 Connection: keep-alive Content-Length: 218 { "nodeId": "Hw47CFMBEchV0pBMDr29IjudnJ1sj0Y@192.168.1.101", "appKey": "defaultApp", "sessionId": "/192.168.1.102:55839/192.168.1.101:8443", "operationId": "d1999750-fde9-11e6-9f1b-913210792931", "payload": { "message": "hello" } }</pre>	<pre> HTTP/1.1 200 OK Date: Tue, 28 Feb 2017 19:12:14 GMT Server: Apache/2.2.15 (CentOS) X-Powered-By: PHP/5.3.3 Content-Length: 220 Connection: close Content-Type: application/json { "nodeId": "Hw47CFMBEchV0pBMDr29IjudnJ1sj0Y@192.168.1.101", "appKey": "defaultApp", "sessionId": "\/192.168.1.102:55839\/192.168.1.101:8443", "operationId": "d1999750-fde9-11e6-9f1b-913210792931", "payload": { "message": "hello" } }</pre>
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Error handling

To make WCS react to the error, set restOnError: FAIL in the settings of the /OnDataEvent method, inrestClientConfigwhen establishing the connection.

Client can send an arbitrary object using the direct method sendData() - step 1.

Web-server will invoke REST-method /OnDataEvent - step 2. As a result, client will receive status SESSION_STATUS.SEND_DATA_STATUS FAILED - step 4.



Example:

2	3
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```
POST /rest/my_api/OnDataEvent HTTP/1.1
Accept: application/json, application/*+json
Content-Type: application/json; charset=UTF-8
User-Agent: Java/1.8.0_111
Host: 192.168.1.101
Connection: keep-alive
Content-Length: 218
```

```
{
  "nodeId": "Hw47CFMBEchV0pBMDr29IxjudnJ1sj0Y@192.168.1.101",
  "appKey": "defaultApp",
  "sessionId": "/192.168.1.102:25789/192.168.1.101:8443",
  "operationId": "d0149310-fdeb-11e6-9b58-9509528e5d66",
  "payload": {
    "message": "hello"
  }
}
```

```
HTTP/1.1 403 Forbidden
Date: Tue, 28 Feb 2017 19:26:30 GMT
Server: Apache/2.2.15 (CentOS)
X-Powered-By: PHP/5.3.3
Content-Length: 0
Connection: close
Content-Type: text/html; charset=UTF-8
```

Sending data to connected client

There is a way to send a direct message to a connected client with REST API query `http://host:8081/rest-api/data/send`

To do this, pass the following JSON object

```
{
  "nodeId": "",
  "sessionId": "/192.168.1.102:25789/192.168.1.101:8443",
  "operationId": "",
  "payload": {
    "test": "test"
  }
}
```

Where `sessionId` is connected client session identifier that is received on backend while REST hook `/connect` handling.

In this case, the connected client receives the custom object where you can put any data, for example `{"test": "test"}` as shown above.

The client receives the `SESSION_STATUS.APP_DATA` event.

