



Web Client

The Web Client library allows for communication with a web server via HTTP or HTTPS. The library is appropriate for communication with a REST service.

The library “Web Client” is now part of the product [IIoT Libraries SL](#) and is no longer available as single product.

Product description

The CODESYS software package includes a library with function blocks for communicating with a web server via HTTP or HTTPS.

- The HTTP method GET requests data from a web server.
- The HTTP methods POST and PUT submit data from the controller to a web server.
- When using DELETE, data is deleted from a web server.
- The HTTP method HEAD returns the HTTP header.

The HTTP header of a request can be extended without any restrictions. In addition, function blocks are included for HTTP basic authentication and authentication via OAuth (Version 1a and 2).

Function block: ‘WebClient’

Function block for sending HTTP and HTTPS requests. The sample project `WebClient.project` illustrates how to use this function block.

Function block: ‘BasicAuthWebClient’

Function block with HTTP basic authentication for sending HTTP and HTTPS requests.

Function block: ‘OAuth1WebClient’

Function block with OAuth authentication (Version 1a) for sending HTTP and HTTPS requests.

Function block: ‘OAuth2WebClient’

Function block with OAuth authentication (Version 2) for sending HTTP and HTTPS requests.

Functions for coding and decoding

- `BASE64_DECODE`: Base64 decoder for STRING
- `BASE64_ENCODE`: Base64 encoder for STRING
- `URL_ENCODE_STRING`: URL encoder for STRING
- `URL_ENCODE_WSTRING`: URL encoder for WSTRING

Screenshots

WebClientExample

http://httpbin.org/get Send Request

Busy Done Error

HTTP Status and Content Length

200	255
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Response Header

```
Connection: keep-alive
Server: gunicorn/19.9.0
Date: Tue, 08 Jan 2019 15:17:55 GMT
Content-Type: application/json
Content-Length: 255
Access-Control-Allow-Origin: *
Access-Control-Allow-Credentials: true
Via: 1.1 varnish
```

Response Content

```
{
  "args": {},
  "headers": {
    "Connection": "close",
    "Content-Type": "application/x-www-form-urlencoded",
    "Host": "httpbin.org",
    "User-Agent": "CODESYS_WebClient"
  },
  "origin": "44.129.35.31",
  "url": "http://httpbin.org/get"
}
```

General information

Supplier:

CODESYS GmbH
 Memminger Strasse 151
 87439 Kempten
 Germany

Support:

<https://support.codesys.com>

Item:

Web Client

Item number:

2111000025

Sales:

CODESYS Store

<https://store.codesys.com>

Included in delivery:

- CODESYS Package with library and sample project
- Workstation license

System requirements and restrictions

Programming System	CODESYS Development System V3.5.14.0
Runtime System	CODESYS Control V3.5.14.0
Supported Platforms/ Devices	Note: Use the project "Device Reader" to find out the supported features of your device. "Device Reader" is available for free in the CODESYS Store.
Additional Requirements	-
Restrictions	-
Licensing	Workstation license
Required Accessories	CODESYS Key for CODESYS < 3.5.14.0

Note: Not all CODESYS features are available in all territories. For more information on geographic restrictions, please contact sales@codesys.com.

Note: Technical specifications are subject to change. Errors and omissions excepted. The content of the current online version of this document applies.