



## Web Client SL

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

### Product description

The library "Web Client SL" contains 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, Digest access authentication and authentication via OAuth (Version 1a and 2).

#### Function block: 'WebClient'

Function block for sending HTTP and HTTPS requests. The sample project `web_client_sl_example.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.

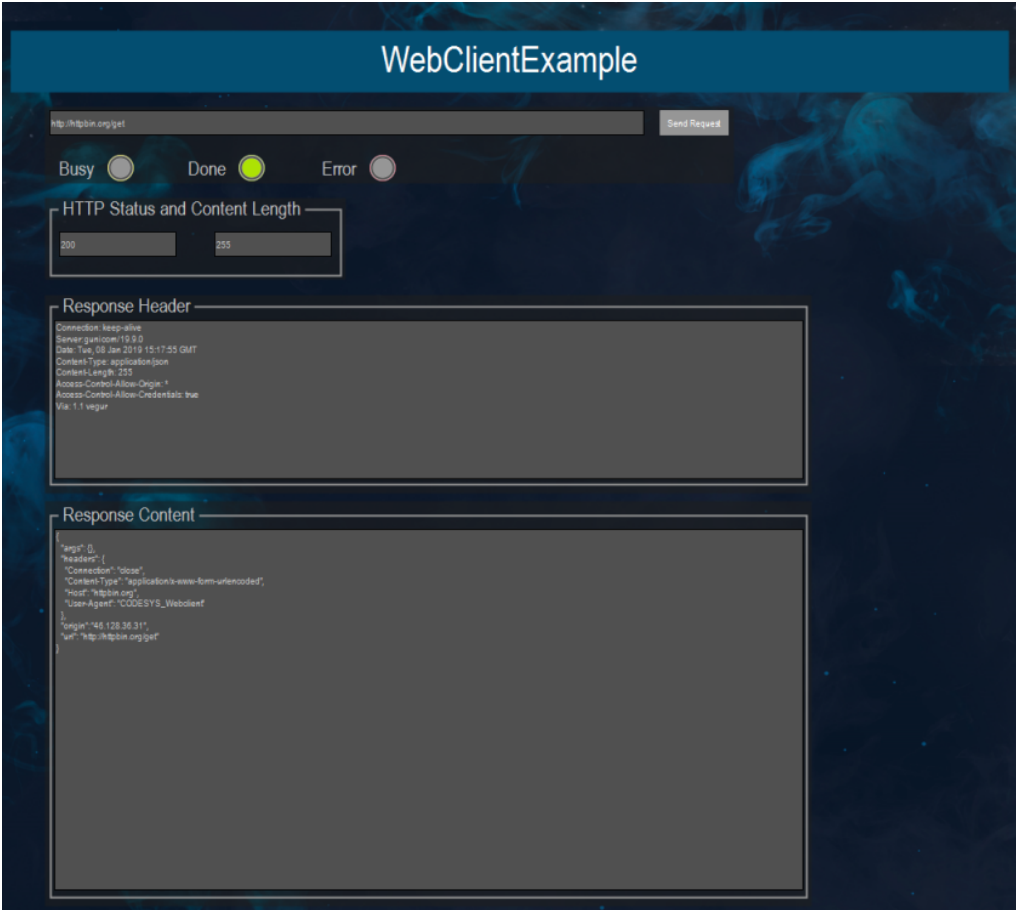
#### Function block: 'DigestAuthWebClient'

Function block with Digest access authentication 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



## General information

### Supplier:

CODESYS GmbH  
 Memminger Strasse 151  
 87439 Kempten  
 Germany

### Support:

Technical support is not included with this product. To receive technical support, please purchase a CODESYS Support Ticket.

<https://support.codesys.com>

### Item:

Web Client SL

### Item number:

2111000025

### Sales/Source of supply:

CODESYS Store  
<https://store.codesys.com>

### Included in delivery:

- CODESYS Package

## System requirements and restrictions

<b>Programming System</b>	CODESYS Development System V3.5.15.0
<b>Runtime System</b>	CODESYS Control V3.5.15.0
<b>Supported Platforms/ Devices</b>	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.
<b>Additional Requirements</b>	-
<b>Restrictions</b>	-
<b>Licensing</b>	<p>License activation optional on CODESYS Key or Soft Key (Soft Key: free of charge component of CODESYS Controls) Licensing via Soft Key is strictly linked to hardware.</p> <p>Note: Without a license the software runs for 30 minutes in demo mode.</p>
<b>Required accessories</b>	-

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

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