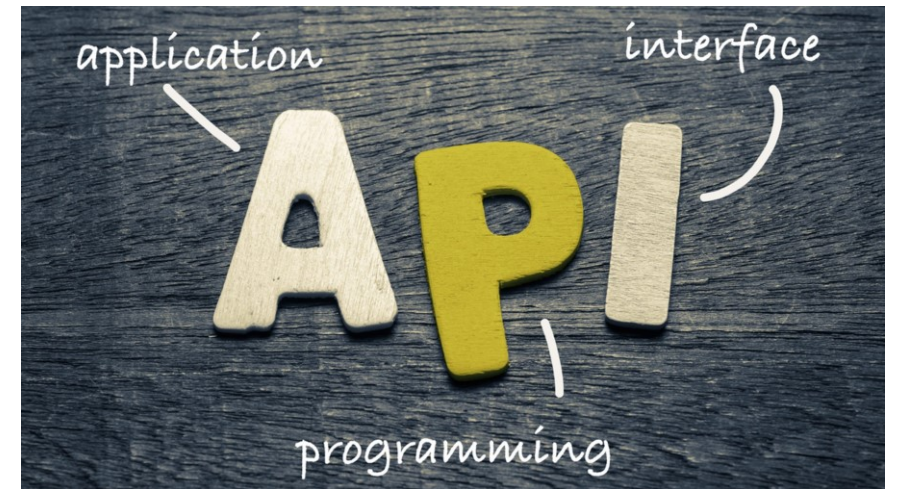


# REST API



# REST API

- x **Application Programming Interface**
  - x Definities en protocollen
  
- x **REST(ful)**
  - x REpresentational State Transfer
  - x Type API
  - x HTTP(S)
    - x URL
    - x GET
    - x POST
    - x JSON





## x Pushover

x <https://pushover.net/api/>

*Pushover*



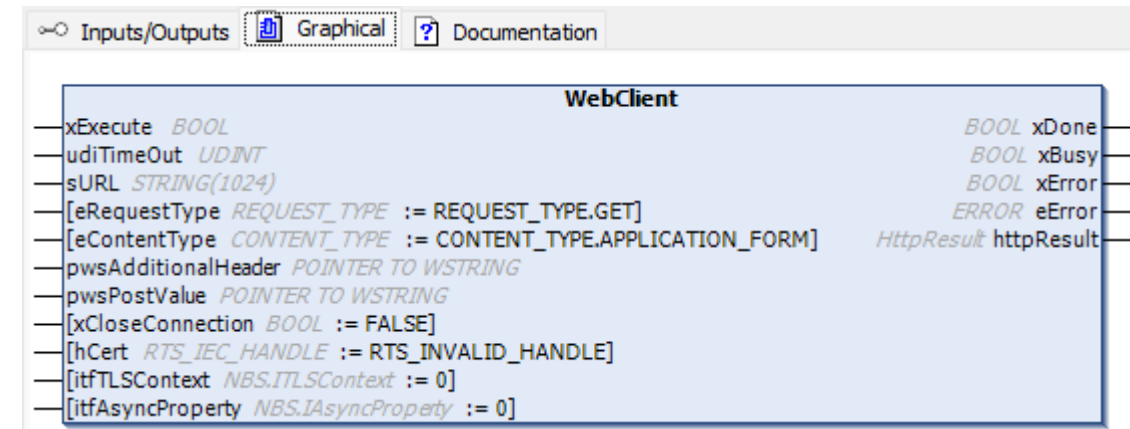
# CODESYS

## x HTTP Client

- x <https://forge.codesys.com/prj/codesys-example/http-client-exa/home/Home/#http-client-example>

## x HTTPS Client

- x CODESYS Store - <https://store.codesys.com/en/>
- x IIoT Libraries SL
- x Dongle



Device.Application.POU			
Expression	Type	Value	Prepared value
fbPushover	WEB_CLIENT.WebClient		
sPushoverUrl	STRING(1024)	'https://api.pushover.net/1/messages.json?token=atne7gqz7...'	
wsPushoverPostValue	WSTRING	"{}"	

1 | fbPushover

**WEB\_CLIENT.WebClient**

<b>FALSE</b> — xExecute	xDone — <b>FALSE</b>
10000000 — udiTimeOut	xBusy — <b>FALSE</b>
sPushoverUrl 'https://ap' — sURL	xError — <b>FALSE</b>
WEB_CLIENT.REQUEST_TYPE.POST <b>C 1</b> — eRequestType	eError — <b>NO ERROR</b>
WEB_CLIENT.CONTENT_TYPE.NONE <b>C 2</b> — eContentType	httpResult
16#00000000 — pwsAdditionalHeader	
ADR(wsPushoverPostValue) — pwsPostValue	
<b>FALSE</b> — xCloseConnection	
16#FFFFFFFF — hCert	
— itfTLSContext	
— itfAsyncProperty	

## x Microsoft Teams

- x <https://docs.microsoft.com/en-us/microsoftteams/platform/webhooks-and-connectors/how-to/add-incoming-webhook>



Microsoft Teams



Device POU x

```
7 fbTeams : WEB_CLIENT.WebClient;  
8 sTeamsUrl : STRING(1024) := 'https://hiflexridderkerk.we  
9 wsTeamsPostValue : WSTRING(1024) := "{ '@context': 'https://sche
```

fbTeams

WEB\_CLIENT.WebClient

- xExecute
- xDone
- 100000000 udiTimeout
- xBusy
- sTeamsUrl sURL
- xError
- WEB\_CLIENT.REQUEST\_TYPE.POST eRequestType
- eError
- WEB\_CLIENT.CONTENT\_TYPE.NONE eContentType
- httpResult
- pwsAdditionalHeader
- ADR(wsTeamsPostValue) pwsPostValue
- xCloseConnection
- hCert
- itfTLSContext
- itfAsyncProperty

**0180-466004**

**YouTube**

**support@hiflex.nl**

**verkoop@hiflex.nl**

**Bedankt voor  
je aandacht**