

## Demo Software

- Original -

### Software Digital

PLC – Cockpit communication



**READ AND OBSERVE ALL DOCUMENTS!**

Before starting work read **this instruction manual and the enclosed safety guide** (pink booklet no. 016000) carefully and follow all instructions. Pass this instruction manual and the relevant safety instructions to the operator.

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## 1 Overview

Using the software block in “Cockpit Communication” the order information relating to a component can be exchanged between the DEPRAG Cockpit and customer PLC. The demos are available for Beckhoff (TwinCAT 3 Build 4024) and Siemens (TIA Portal v16).

## 2 Preparation

A PLC with Ethernet interface and a PC system where the DEPRAG Cockpit is installed are required.

Both systems should be connected via Ethernet. Make sure that the PC can access the DEPRAG Cockpit via the port 8089.

Ensure that the user who needs to access the DEPRAG Cockpit has the “API access” permission.

### 3 Order information

Order information is sent from the PLC to the DEPRAG Cockpit. The screwdriving results are allocated to the order information, until the PLC provides new order information.

#### 3.1. Software for TwinCAT 3

##### 3.1.1 General

The demo is executable with standard installation of TwinCAT 3 from Build 4024.

##### 3.1.2 Description of parameters

For use in the customer's environment, the variables highlighted with "TODO" must be adapted.

Variable	Data type	Description
nHostPort	INT	Port of the network interface in the Cockpit, normally 8089
sHostName	STRING	Web server address, e.g. 127.0.0.1
sUri	STRING	URI (Uniform Resource Identifier) of the Cockpit BA. This URL does not usually ever have to be edited.
sAuthorisationBase64	STRING	User name and password in Base64 format. The combination "user:password" should be provided by the customer in Base64 format. Note the colon between the user name and password
sDeviceSerialNumber	STRING	Serial number of the sequence controller which relates to the data. You can find the serial number in the DEPRAG Cockpit or in your sequence controller under menu item System data.
sPartSerialNumber	STRING	Data point "serial number"
sProductNumber	STRING	Data point "product number"

**Tabelle 1: TC3 REST interface - parameters**

## 3.2. Software for TIA portal

### 3.2.1 General

The demo is executable from TIA portal. To establish connection to the DEPRAG Cockpit, you must start the `Deprag.Tia.Forwarder.exe` file from the folder `TIA-Forwarder`.

### 3.2.2 Description of parameters

For use in the customer's environment, the plc modules `Cockpit_FB`, `LHTTP_Get`, `LHTTP_ExtractStringFromArray` and `LHTTP_FindStringInArray` have to be import (with drag and drop) in the customize project. The function module `Cockpit FB` have to be call in the customize project.

Input/Output	Variable	Data type	Description
Input	bExecute	BOOL	Start the process
Input	hwId	HW_ANY	Hardware Id of interface
Input	connId	CONN_OUC	Connection Id of interface
Input	nHostPort	INT	Fixed. Always 8090
Input	sForwarderUrl	STRING	Fixed. Always /OrderDescription
Input	sHostName	STRING	Web server address, e.g. 127.0.0.1
Input	sUserName	STRING	User name
Input	sPassword	STRING	Password
Input	sDeviceSerialNumber	STRING	Serial number of the sequence controller which relates to the data. You can find the serial number in the DEPRAG Cockpit or in your sequence controller under the menu item System data.
Input	sPartSerialNumber	STRING	Data point "serial number"
Input	sProductNumber	STRING	Data point "product number"
Output	bBusy	BOOL	Process active
Output	bDone	BOOL	Process finished with success
Output	bError	BOOL	Process finished with error
Output	nHttpResponseCode	UInt	Http Response-Code (200 => successful, >=400 => faulty)
Output	nLHttpGetStatus	Word	State of the module <code>LHTTP_Get</code> . module was developed from Siemens.

**Tabelle 2: Description of Cockpit\_Fb**

## 4 Demo license

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## 5 Service locations and authorised partners



Contacts in Germany  
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### Service Hotline

If you need service, please contact your DEPRAG Representative or contact us direct DEPRAG Service department (phone 09621 371-371 | Email: [service@deprag.de](mailto:service@deprag.de))

Outside business hours our **service-hotline** number **0700 00 371 371** (phone call will be charged) will take your calls. Our service department will then get straight back to you the next working day.



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