

RPC Example

The package contains an example project for "Remote Procedure Calls". Two applications demonstrate the implementation of server and client RPC applications.

Product description

The example is based on the library RPC which is part of the CODESYS Development System. The library contains all required components for building RPC applications. The example project RPCExample.project shows the usage of this library on the basis of a simple client and server application.

More information

The project RPCExample.project includes the applications RPClient and RPCServer. Both applications must run on separate devices.

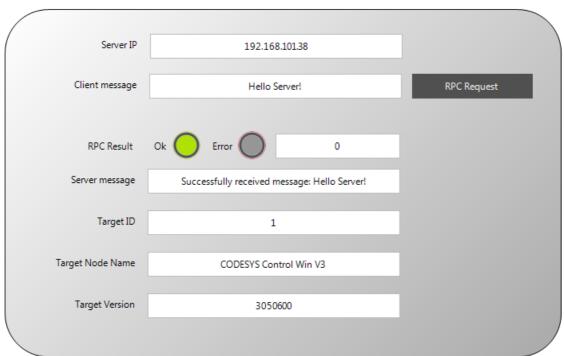
RPC Client

The program PROG executes four remote procedure calls on the server:

- HelloServerRequest
- GetTargetId
- GetTargetNodeName
- GetTargetVersion

Each call is handled by the function block RPCRequest which uses the function block RPC.CLClient to send an RPC request to the server. The results of the request are copied to the corresponding variables in the method InvokeCallback of the function block RPCClientCallback. The request status and the result of the request are displayed in visualization.

Visualization



At first, the IP address of the server must be entered in the field "Server IP". After that the RPC request can be started via the button "RPC Request".

RPC Server

The program PLC_PRG initializes the function block RPC.CLServer and registers the interface IRPCProvider. A

procedure is described by objectId, interfaceId and operationnumber. The request and the callback function are handled by operationnumber in the method Request. The callback function can also be executed asynchronously in the next cycle. The server component of the RPC library includes three standard procedures with device information by default (Target Name, Target ID, Target Version).

General information

Manufacturer:

3S-Smart Software Solutions GmbH Memminger Strasse 151 87439 Kempten Germany

Support:

https://support.codesys.com

Item:

RPC Example **Item number:**

000059

Sales:

CODESYS Store

https://store.codesys.com

Included in delivery:

RPCExample.project

System requirements and restrictions

Programming System	CODESYS Development System V3.5.9.0
Runtime System	CODESYS Control V3.5.9.0
Supported Platforms/ Devices	All
	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	Ethernet adapter
Restrictions	-
Licensing	-
Required Accessories	-

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.