

## ***How-To-Do***

# **Konfiguration of the CPU 31xS for Application with RS485**

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# 1 General

## 1.1 Information

This 'How-To-Do' describes, how you can configure a SPEED7 CPU for the application with RS485 in the SIMATIC Manager from Siemens.

You can find a detailed description of the SPEED7 CPUs in the manual under the link <http://www.vipa.com/de/service-support/manuals/control-systems/300s/>.

## 1.2 Reference

In this 'How-To-Do' the principal procedure is described by means of examples.

Liability for material defects and defects of this documentation, especially for the correctness, accuracy, freedom and protection or third party rights, completeness and / or usability - except for willful misconduct or bad faith - is excluded.

## 2 Step by Step Procedure

1. Start the **SIMATIC Manager** from Siemens and create your project corresponding to your hardware conditions. In this How-To-Do the example project of the CPU 314ST is used as basis.
2. Open the hardware configuration of the respective VIPA CPU.
3. Select the CPU an the Speed Bus [see picture – inscription a.)]
4. See the object properties of the CPU in the spreadsheet [see picture – inscription b.)]
5. A new window opens, select *parameter* [see picture – inscription c.)]
6. Search for the record *function RS485* [see picture – inscription d.)]
7. Select the pull-down menu for the value *PtP* [see picture – inscription e.)]
8. Confirm by <OK> and save the hardware configuration.
9. The parameterization is executed at the runtime using the SFC216 (SER\_CFG). Here you must store the parameters for all protocols in a data building block with the exception of ASCII.

The image displays three screenshots from the SIMATIC Manager software, illustrating the steps for configuring a VIPA CPU 314ST for RS485 communication.

**Top Screenshot:** The 'HW Config - [CPU 314ST (Configuration) -- CPU 314ST]' window shows the hardware configuration. A red circle highlights the '(100) VIPA SPEEDbus' component, with a red arrow pointing to it and the text 'a.) Select CPU at the SPEED Bus'.

**Middle Screenshot:** The '(100) VIPA\_SPEEDbus' table shows the configuration details. A red box highlights the row for '0 182 314-6CF01 314ST/DPM 0.47 0.23', with a red arrow pointing to it and the text 'b.) see properties'.

**Bottom Screenshot:** The 'Properties - DP slave' window is open, showing the 'Parameter Assignment' tab. A red circle highlights the 'Function RS485 X3' entry, with a red arrow pointing to it and the text 'd.) process function RS485'. Another red circle highlights the 'Profibus-DP async' entry in the dropdown menu, with a red arrow pointing to it and the text 'e.) select PtP'.

## 3 Revision History

### 3.1 Changes:

DATUM	ÄNDERUNGEN	BEARBEITER
17.01.2007	Erstellung	A.Mühlfelder
02.06.2014	Überarbeitung Layout und Text	N. Schlimm
19.03.2014	Übersetzung Englisch	N. Schlimm
02.06.2014	Textanpassen und Screenshots (Englisch)	M. Dörnhöfer