SIEMENS

SIMATIC
Industrial software
S7-PLCSIM Advanced readme
Readme

General information

This Readme file contains information about SIMATIC S7-PLCSIM Advanced V6.0.

This information should be considered more recent than the product documentation and replaces corresponding information in the product documentation and installation instructions.

New features in S7-PLCSIM Advanced V6.0

S7-PLCSIM Advanced V6.0 provides the following new features:

- Simulation support for Software/Open Controllers
- Simulation support for additional SIPLUS and SIPLUS RAIL devices
- Improved API usability on networking mode handling
- New IBaseRuntimeManager in the API to consolidate runtime functions
- Additional updates to the API for various event handlers and methods

Cybersecurity information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines, and networks.

In order to protect plants, systems, machines, and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For more information on protective industrial cybersecurity measures for implementation, please visit (https://www.siemens.com/industrialsecurity).

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customers' exposure to cyber threats.

To stay informed about product updates at all times, subscribe to the Siemens Industrial Cybersecurity RSS Feed under (https://www.siemens.com/cert).

Additional Information

Working with Software/Open Controller in S7-PLCSIM Advanced

If you have selected a TCP/IP communication interface for the online access of a Software/Open Controller, the IP address of your S7-PLCSIM Advanced Instance must match the IP address defined in your TIA Portal project.

If you create the instance through the API, the IP address must also be the same as in the TIA Portal project.

In your device configuration, select "Set IP address in the project" and configure a static IP address to the PLC Interface. Do not assign IP addresses with 0.0.0.0 and 192.168.0.1 values.

When you download to your instance, select the appropriate "Direct at slot 1 Xn" variant in the Connection to interface/subnet dropdown in the Extended download to device window. The TIA Portal Load Preview window displays an error message if an IP Address mismatch occurs. In this case, you must cancel the download and re-create your instance.

Updating password encryption

Regarding topic "Update of a TIA Portal project to a new CPU firmware", in the S7-PLCSIM Advanced Function Manual, the "Update password encryption" button might not be visible in the settings for the CPU's Protection & Security > Access control. Collapse the pane on the right side to make the button visible.

Maximum quantity structure for S7-PLCSIM Advanced

The topic "Differences between a simulated and real CPU" in the S7-PLCSIM Advanced Function Manual incorrectly states that the maximum quantity structure is based on the CPU 1518-4 PN/DP.

Correction: The maximum quantity structure is based on the CPU 15418TF-4 PN/DP.

Communication interface is not updated on the control panel when using an older API

If you are using an S7-PLCSIM Advanced API version older than V6.0, the communicaton interface might not display correctly on the S7-PLCSIM Advanced V6.0 Control Panel.

Pull or plug of PN/PN Coupler module

With a physical PN/PN Coupler device, you cannot pull or plug the module. S7-PLCSIM Advanced allows a pull or plug of PN/PN Couplers if Proxy HwID is used as input for pull/plug events.