SIEMENS

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SIMATIC

Process Control System PCS 7 PH Readme V9.0 SP4 (online)

Readme

V9.0 SP4
A5E49999545-AA

Legal information

Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

⚠ DANGER

indicates that death or severe personal injury **will** result if proper precautions are not taken.

⚠ WARNING

indicates that death or severe personal injury **may** result if proper precautions are not taken.

⚠ CAUTION

indicates that minor personal injury can result if proper precautions are not taken.

NOTICE

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

Proper use of Siemens products

Note the following:

⚠ WARNING

Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

Trademarks

All names identified by ® are registered trademarks of Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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Security information

1

Siemens provides products and solutions with industrial security 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 security 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 additional information on industrial security measures that may be implemented, 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 customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under
https://www.siemens.com/industrialsecurity.

Overview

2

This information has priority over statements made in other documentation.

Please read these notes carefully as they contain important information about the installation and use of the Plant Hierarchy (PH).

You can find important information in the "Notes on usage" section.

Notes on installation 3

The installation notes include important information that you need to install the PH software. Please read these notes prior to installation.

3.1 Scope of delivery

You can download PH V9.0 SP4 from Industry Online Support:

Internet link (https://support.industry.siemens.com/cs/ww/en/)

Engineering System Collection

In addition to the above-mentioned single download, you can also download the relevant files for the Engineering System (ES) as "Engineering System Collection".

The "Engineering System Collection" provides the ES products of the current ES Service Pack. This collection provides a package of quality improvement measures for the included ES products for installation.

You can find the "Engineering System Collection" of ES V9.0 Service Pack 4 in the section "PCS 7 Software Updates" > "PCS 7 V9.0 SP3" on the following website:

Internet link (https://support.industry.siemens.com/cs/ww/en/view/63481413)

3.2 Hardware requirements

The PH software is part of the PCS 7 software and the TIA Maintenance Station. It can therefore only be operated on devices which meet the hardware requirements for the PCS 7 software.

These requirements are described in the readme file for the PCS 7 software.

3.3 Software requirements

Runtime environment

The PH software is part of the PCS 7 software and the TIA Maintenance Station. To operate it, the software requirements of the PCS 7 software must be met.

In order to operate PH, you also need the following software on your programming device or PC:

- Basic software STEP 7 V5.6 or higher
- Programming software CFC V9.0 SP4

Memory requirements

PH requires approximately 5 MB of space on your hard disk.

3.4 Installation and removal

Installation of PH

You can install PH V9.0 SP4 over an existing installation of PH.

PH can only be installed after complete installation of STEP 7. The setup program automatically installs PH on the drive containing the STEP 7 software.

PH is installed with a user-guided setup that you launch with the MS Windows Explorer by double-clicking on the SETUP.EXE program.

License key for PH

You need the "AS Engineering" license key in order to use PH. You need the license keys "Maintenance ES" and "Maintenance RT" in addition if you wish to use the optional "Maintenance" functionality.

Before you can work with PH, you need to transfer the license keys (usage rights) from the license key memory stick to the computer.

If the license keys cannot be installed during setup, continue setup without installing the license keys. Afterwards, restart the computer and install the license keys using the Start menu item **Simatic > License Management > Automation License Manager**.

The notes from the STEP 7 readme also apply to the license keys.

Uninstalling PH

Note

You have to remove software products in accordance with the MS Windows guidelines.

To do this, uninstall your software package in the Windows Control Panel. For example, in Windows 7, open **Programs > Programs and Features** in the Control Panel and select your software package to be uninstalled. This is the only way to uninstall the software under MS Windows.

Dynamically created files could remain when you uninstall PH. This is detected by the Uninstall tool, and shown with the message "Some elements could not be removed. You should manually remove items related to the application.". You can, but do not have to, delete these dynamically created files.

Notes on usage

4

These notes take precedence over statements made in the manuals and online help.

4.1 New features and changes as compared to previous versions

What's new in the plant hierarchy (PH)?

V9.0 SP4

Compared with the previous version V9.0 SP3, version V9.0 SP4 includes the following enhancements or changes:

- In V9.0 SP4, several minor corrections and improvements were made in the plant hierarchy.

V9.0 SP3

Compared with the previous version V9.0 SP1, version V9.0 SP3 includes the following enhancements or changes:

- You can run the detailed diagnostics in the SIMATIC PAM station by selecting the option "SIMATIC PAM Station (license required)" in the "Plant Hierarchy - Settings" dialog box.
- The new tabs of the "Extended diagnostics settings" dialog box contain the maintenance information of the SIMATIC PAM station; there you can also assign a DB number to the devices for diagnostics.

V9.0 SP1

Compared with the previous version V9.0, version V9.0 SP1 includes the following enhancements or changes:

- The "Repair" button in the "Plant Hierarchy - Settings" dialog can be used to repair the diagnostics settings and to eliminate the cause for an inconsistency message of the basic settings of the PCS 7 maintenance station.

V9.0

Version V9.0 includes the following enhancements or changes compared with the previous version V8.2 SP1:

- A hierarchy folder can be assigned the ISA 88 type definition "equipment phase" for type-defined hierarchy.
- In the "Advanced Diagnostics Settings" dialog box, you can configure substructures for the areas of the network objects and PC stations.

V8.2 SP1

Compared with the previous version V8.2, version V8.2 SP1 includes the following enhancements or changes:

- In V8.2 SP1, several minor corrections and improvements were made in the plant hierarchy.

V8.2

Compared with the previous version V8.1, version V8.2 includes the following enhancements or changes:

- In the "Advanced Diagnostics Settings" dialog box, the so-called maintenance information, an additional storage path for export data and the display of navigation information can be configured.

4.2 Information on configuration and operation

Migrating to Other PH Versions

Editing data from versions prior to V5

The first time there is read or write access to PH data from versions V3.x or V4.x with version V9.x, a notice appears informing you that data from an earlier version is being edited. You need to decide whether to use the PH data. If you select "Yes", the PH data is converted for the entire project and V9.x functionality is available.

If you choose "No", the data remains unchanged. Only the V4 functionality is available and only V4 data is visible and can be edited. To continue working properly with the project, we urgently recommend that you upgrade the data to version V9.x, particularly if you are using the IEA.

Editing data as of V5

As of version 5.x, data is implicitly upgraded to the V9.x format.

General notes on compatibility

You cannot convert V9.x data "back" to older versions.

Data that was created with PH V9.x cannot be processed with older PH versions.

4.3 Notes on the documentation

The entire documentation on PH is available to you via the online help. This documentation contains both "basic knowledge" on cross-function contents as well as information on the direct operating and functional context. You can access this help through the context help of the PH functions with F1 and then with the "Help Topics" button.

You can find more information on configuring the PH in the PCS 7 ES configuration manual.