SIEMENS

SIMATIC

PCS 7
SIMATIC PDM Readme V9.3 (Online)

Readme

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V9.3
A5E52447474-AB

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

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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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Cybersecurity information

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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 additional information on industrial cybersecurity measures that may be implemented, please visit
https://www.siemens.com/cybersecurity-industry.

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 Cybersecurity RSS Feed under
https://new.siemens.com/cert.

Industrial Security

2

Core statement

This product can be part of SIMATIC PCS 7 and integrated into the overall safety concept of the plant. Siemens strongly recommends setting up, operating, maintaining, and decommissioning the plant environment in accordance with the SIMATIC PCS 7 Compendium Part F - Industrial Security. You can find more information at AUTOHOTSPOT.

See also

Technical documentation SIMATIC PCS 7 (https://support.industry.siemens.com/cs/ww/en/view/109815443)

Overview

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Note

Notes on the documentation

This information has priority over statements made in other documentation. Please read the notes carefully as they contain important information about the installation and use of SIMATIC PDM.

Dear Customer!

4

The installation notes contain important information that you need to install the SIMATIC PDM V9.3 software. Read these notes prior to installation.

General information

The text below contains important basic information about the installation of SIMATIC PDM.

The information contained in the *PCS 7 Readme* also applies when using the product with PCS 7 V10.0.

Compatibility

PDM V9.3 is compatible with STEP 7 V5.6, STEP 7 V5.7.

Notes on PDM V9.3

SIMATIC PDM V9.3 contains functions for using SIMATIC PDM in the context of PCS 7 V10.0.

Notes on installation

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Scope of delivery

- 1 x installation medium containing the complete "SIMATIC PDM V9.3" software
- 1 x installation medium "SIMATIC PDM Device Library 1#2024"
- Licenses on USB memory stick corresponding to the ordered product
- Software product certificate

This "SIMATIC PDM V9.3" installation medium contains the following components:

- SIMATIC PDM Version 9.3
- Manuals and descriptions on SIMATIC PDM
  The electronic manuals are also available on your computer after the installation of SIMATIC PDM.

You will find more information on SIMATIC PDM on the Internet at www.siemens.com/simatic-pdm (www.siemens.com/simatic-pdm)

Hardware requirements

SIMATIC PDM V9.3 has not been explicitly tested for compatibility with communications modules (CP) for PROFIBUS, Industrial Ethernet and HART communication. The product-specific release of the communications modules takes place as part of the release for SIMATIC PCS 7 V10.0.

Depending on the context, you may need a SIMATIC NET interface connection for the PC for online functions.

- This means that the following Industrial Ethernet communications modules are also released for SIMATIC PDM V9.3:
  - CP 1613 A2
  - CP 1623
  - Intel network card 10/100/1000 Mbps with PCI interface
  - Intel network card 10/100/1000 Mbps with PCIe interface
  - Ethernet Controller 10/100/1000 Mbps
- The following PROFIBUS communications modules have been released for local direct access of SIMATIC PDM V9.3 to PROFIBUS:

	Windows Server 2008	**Windows 7**
CP 5611	no	no
CP 5611 A2	yes	yes
CP 5711	yes	yes
CP 5613 A2	yes	yes
PC adapter USB	yes	yes

You can find more information and article numbers from the product information on the Internet at http://www.siemens.com/automation/service&support (https://www.siemens.com/automation/service&support).

Software requirements

Operating systems

The stand-alone version of SIMATIC PDM is compatible with the following Windows operating systems:

- Windows 10 Professional
- Windows 10 Enterprise LTSC 2019
- Windows 10 Enterprise LTSC 2021
- Windows Server 2019 Standard Edition
- Windows Server 2022 Standard Edition

In combination with PCS 7, SIMATIC PDM is compatible with the Windows operating systems that are supported by PCS 7 Engineering Station. SIMATIC PDM is compatible with the following Windows operating systems:

- Windows 10 Enterprise LTSC 2019
- Windows 10 Enterprise LTSC 2021
- Windows Server 2019 Standard Edition
- Windows Server 2019 Datacenter Edition
- Windows Server 2022 Standard Edition
- Windows Server 2022 Datacenter Edition

Note

SIMATIC PDM on Windows 10 and Windows Server 2019/2022 operating systems

Requirement: .NET Framework 4.x

If you want to install SIMATIC PDM on the Windows 10 operating system, .NET Framework 4.x must be activated.

Procedure:

Open Control Panel > Programs and Features.

Select the function "Turn Windows features on" and enable the option ".NET Framework 4.x".

Note

SIMATIC PDM can only run on 64-bit systems.

Number of simultaneously active SIMATIC PDM sessions

SIMATIC PDM reserves a memory area of the virtual RAM for each SIMATIC PDM session.

Recommendation: For performance reasons, make sure that no more than 5 SIMATIC PDM sessions are open at the same time.

User rights

Administrator rights are required for installation of the software as well as configuration of modules using the "Set PG/PC interface" application.

When SIMATIC PDM V9.3 is installed on an NTFS drive, the user must have write permission for the respective directory.

Hibernation

In general, SIMATIC PDM V9.3 permits the switch to hibernation. However, hibernation is not permitted while there are open online connections or while projects are accessed via the network.

Otherwise, online connections could be interrupted unintentionally

and data loss could occur in open projects on network drives.

Never trigger hibernation manually in the cases mentioned above.

Make sure that you set the power options for the operating system in the Windows Control Panel in such a way that hibernation is not triggered automatically (time-controlled).

Installing the software

You can (post-)install each component individually, taking the dependencies into consideration. A restart of the PG/PC may be required, depending on the installed component.

Note

The components of the SIMATIC PDM software register in the MS Windows NT system files. After installation with MS Windows tools, such as Windows Explorer, you may not move files or folders of the software or modify software-specific data in the MS Windows Registry. The program will not run correctly after such modifications.

We recommend that you restart the computer before you install SIMATIC PDM over an existing version.

Note

If an upgrade installation is performed with the PDM FF option, then the FF option must be installed manually afterwards.

SIMATIC PDM device catalog (installation medium "SIMATIC PDM Device Library 1#2024")

- Once SIMATIC PDM has been installed, the device descriptions for the devices you use must be imported into your computer. To do this, run the "Device Integration Manager" program.
- You can find the devices supported by SIMATIC PDM on the supplied device catalog. Information on the devices is also available in the readme file on this installation medium.

Note

If you receive an error message when opening projects in SIMATIC Manager informing you about uninstalled devices, import the required device descriptions with the "Device Integration Manager" program.

License key

When transferring the license keys to your computer's hard drive, select the medium on which you received the license key as source:

Before you can work with SIMATIC PDM V9.3 , you have to transfer the license key (user authorization) to the computer. The Automation License Manager is available in the Windows Start menu under the Siemens SIMATIC products.

The Automation License Manager has to be installed to operate SIMATIC PDM V9.3.

Note

Possible data loss in the project

If you are configuring STEP 7 projects with configured SIMATIC PDM process devices, you may experience a loss of data in the project as long as SIMATIC PDM is not installed or not sufficiently licensed.

Make sure that SIMATIC PDM is installed and that you have a sufficient number of licenses.

Information on correct use of license keys

- The USB memory stick should not be write-protected. If it is, there is a risk that a virus can be transferred from the hard drives to the USB memory stick. Check your PG/PC for viruses prior to each installation/removal of a license key.
- If you are using an optimization program that lets you move fixed blocks, you can only use this option if you have transferred the license key from the hard drive back to the license key disk/USB memory stick beforehand.

- The license key creates a specifically marked cluster on the target drive. Some check routines identify this cluster as "defective". Do not try to restore it.
- Transfer the license key to the USB memory stick before you format, compress or restore your hard drive or install a new operating system.

Note

Possible loss of license keys

If a backup of your hard disk includes copies of license keys, it might be possible that the license keys that are still valid and installed on the hard disk are overwritten and thus destroyed when you write back the backup files to the hard disk.
Either remove all license keys before you create a backup copy or exclude them from the backup.

Licensing

Licensing for use of the S7 DSGW (data record gateway) for gateways from the plant bus (Ethernet) to field buses (PROFIBUS) is performed via TAG licenses in the standalone variant. TAG licenses are booked depending on the quantity according to the following rules:

- 10 TAG: per S7 DSGW with a PROFIBUS subnet
- 20 TAG: per S7 DSGW with more than one PROFIBUS subnet
- 10 TAG: per IE/PB link
- 0 TAG: for Ethernet or PROFINET networks

The "SIMATIC Logon" option requires licenses for the following applications:

- SIMATIC PDM stand alone
- SIMATIC PDM integrated in STEP 7

No separate license is necessary within the assigned SIMATIC PCS 7 version.

Removing the software

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

For this purpose, uninstall your software package via the Windows application "Add or remove programs".

Alternatively, you can uninstall a program with the setup program.

Note

If SIMATIC PDM is used integrated in SIMATIC PCS 7, uninstalling SIMATIC PDM including its option packages is not permissible.

Migrating projects

- Projects which were created with a SIMATIC PDM version prior to V8 are migrated automatically the first time they are opened. All required add-on packages must already be installed before the project is migrated.
- The migration process is canceled if device descriptions assigned to objects are faulty or have not been imported.
- Before you open a project, you should check with the Device Integration Manager (DIM) to determine whether all device descriptions used in the project have already been imported. This is the only way to ensure that the migration process will be completed successfully.
- If a migration process resulted in errors, follow these steps:
  - Open the project in the process device plant view and delete all grayed-out objects.
  - Reorganize the project.
  - Close the project and then reopen it.

Notes on usage

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Introduction

The following sections cover topics that cannot be clearly assigned to a product manual/product-specific readme file. You should also read the product-specific readme files.

Supported devices and profiles

A list of the currently integrated devices is available in the CD_2_manuals\ListOfIntegratedDevices.htm folder on the "SIMATIC PDM Device Library 1#2024".

Since SIMATIC PDM V8.0, the devices for SIREC and SIPART have not been supported through independent serial communication.

The SIPART DR devices with a PROFIBUS DP interface can still be used with the current version of SIMATIC PDM.

New features and changes as compared to previous versions

For information on this, please refer to the "What's new?" file on the SIMATIC PDM CD.

Support of HART DDs of the Hart Communication Foundation (HCF)

The HART DDs of the HCF are automatically installed when you install the device descriptions from the "SIMATIC PDM Device Library 1#2024" DVD.

Read section "Supplement to the "General License Conditions for Software Products for Automation and Drives". (Page 21)".

Please inform us about any problems you may encounter when working with devices using the HART DDs of the HCF.

Loading FOUNDATION Fieldbus (HW Config)

An "Exclude FF Link and FF devices from loading" function can be selected in the object properties of the FF Link. This only stops the schedule download to the devices; the DP configuration of the FF Link is always downloaded.
If this function is selected and changes are made in the FF segment, the entire FF segment brought to a stop after an AS download.
Recommendation: Use this function only during the commissioning phase of the AS to speed up the "Full download of the AS" process. In the operation phase, only the functions "Always load FF Link and FF devices" or "Only load FF Link and FF devices when modified" should be used.

Supplement to the "General License Conditions for Software Products for Automation and Drives". 7

7.1 Warranty

Warranty class

The HART server as component of HART communication by means of standard HART multiplexer is assigned class C.

Device description

The Siemens warranty only applies up to the interface for device-specific DDs for non-Siemens devices.

Siemens does not offer a warranty for the following device descriptions (DDs) and for the correct interaction of these DDs with the associated devices:

- For non-device-specific DDs, such as DDs complying with the PROFIBUS PA profiles or the universal or common practice commands by HART
- For DDs of the HCF library from the "SIMATIC PDM Device Library 1#2024" device catalog
- All DDs of the Fieldbus Foundation DD library
- For DDs that are not located on the "SIMATIC PDM Device Library 1#2024" device catalog and were integrated in SIMATIC PDM

7.2 Liability

Siemens explicitly rejects any liability for damages resulting from the use of the following DDs and when used in conjunction with the associated devices:

- The Siemens warranty only applies up to the interface for device-specific DDs for non-Siemens devices.
- For non-device-specific DDs, such as DDs complying with the PROFIBUS PA profiles or the universal or common practice commands by HART
- For DDs of the HCF library from the "SIMATIC PDM Device Library 1#2024" device catalog
- All DDs of the Fieldbus Foundation DD library
- For DDs that are not located on the "SIMATIC PDM Device Library 1#2024" device catalog and were integrated in SIMATIC PDM

Important note on the supplied device descriptions

The DDs of non-Siemens field devices were not developed by Siemens and are included with the shipped products free of charge.

The licensee is entitled to use the DDs of these devices in the same manner as a Trial License in accordance with the General License Conditions for Software Products for Automation and Drives.

This right of use may be exercised by the licensee for as long as the right of use for the PDM software.

Configuration notes

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Routing

You can find a full list of modules, including the required firmware versions using the functionality, on the Internet at the Customer Support website in the FAQ with the entry ID: 7000978 (https://support.industry.siemens.com/cs/ww/de/view/7000978) (see under Automation Systems > Software for SIMATIC Controller > STEP 7).

Communication via HART modem

When an additional HART master (e.g. HART module of a remote IO, HART handheld communicator) communicates via the HART network along with SIMATIC PDM, the communication with SIMATIC PDM may sometime be interrupted. Ensure that there are not two Primary Masters in the HART network.

Set the **transfer buffer to 1 byte (low)** and the **receive buffer to 16 bytes (high)** for communication via serial interface. Under Windows, we recommend using an RS232 HART modem for some devices and to reduce the receive buffer to 1 byte or to disable the FIFO buffer. A change to these settings only takes effect when the PC is rebooted.

Import functions

- Export files which were generated with a SIMATIC PDM version prior to V8 cannot be imported directly. They have to be converted with the installed conversion program to the PDM V8 format prior to import.
  Select the menu command **SIMATIC PDM > Exportfile Converter** under the Siemens SIMATIC programs in the Windows start menu.
- The following error message can appear in the import message log if you convert and import PDM export files which contain CEAG or Pepperl&Fuchs Remote I/Os created with PDM releases older than V8:

  'modul_status_active4: IDSE_OM_PARAM_INVALID'

  This message can be ignored.

Copying

When you copy an AS in SIMATIC Manager in the component view, only the files for HW Config are created. When you open HW Config, the PDM objects are generated with initial data. Inconsistencies cannot be ruled out.

Always copy the entire project, even if you only need the data from a single AS.

See also

https://support.industry.siemens.com/cs/ww/en/view/7000978 (https://support.industry.siemens.com/cs/ww/de/view/7000978)

System properties

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System properties

- If you receive a message stating that objects are still locked when you archive projects, stop the SIMATIC PDM ASSET service with the SIMATIC PDM ASSET Service Manager tool before you archive the project.
- If several devices are edited online simultaneously using STEP 7 HW Config, you may encounter access conflicts. Remedy: Close and restart STEP 7 HW Config.
- In the network view, use the shortcut menu or the SIMATIC Manager menu command **Edit > Copy** or **Edit > Paste** and not the keyboard commands **Ctrl+C/Ctrl +V** to copy and paste devices.
- If an error message appears during download indicating that communication is not possible, it may be that the device only supports one connection.
  Download the devices individually in this case.
- If you encounter a problem with SWITCH ES when you install SIMATIC PDM over an existing version, please install the SIRIUS NET object manager again.
- You have to set the project path for the maintenance project again when you install a new version of PDM in an existing PCS7 installation. To do this, select the project in SIMATIC Manager.
- A download in STOP mode is mandatorily required after upgrading from SIMATIC PDM V6.0 .
- When you use the SIMATIC S7 F Systems optional package, at least S7 F Configuration Pack V5.5 SP9 UPD1 must be installed.

Editing several PCS 7 projects with PDM

If you edit several projects in SIMATIC Manager with a PDM computer, you have to observe the following sequence when you change between projects:

1. Stop the SIMATIC PDM ASSET Service on the PDM computer.
2. Stop the process mode on the Maintenance Station of the current project.
3. Open the required project in SIMATIC Manager.
4. Set the maintenance project in the SIMATIC Manager.
5. Start the SIMATIC PDM ASSET Service on the PDM computer.
6. Start the process mode on the Maintenance Station of the current project.

Further notes

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- The Windows user using the ASSET must be a member of the "SIMATIC HMI" Windows group.
- Only one user at a time may access HW Config within a project. It does not matter whether one and the same or several S7 stations are being configured (see also the readme notes regarding use in PCS 7).
- Integrating device descriptions: Before importing individual device description packages which are not included in the supplied device catalog "SIMATIC PDM Device Library 1#2022", quit the Device Integration Manager after importing the delivered device description library and start it again.
- Device descriptions without device help files:
  If you use device descriptions without device help files, the Microsoft HTML Help Workshop is required to create the missing device help files when integrating the device description with the Device Integration Manager. If this program is installed at a later time, the affected device descriptions must be integrated again.
- GSD import: Devices that were added via GSD import in HW Config can be edited in PDM. The "parameter assignment with PDM" option must be selected in HW Config. These objects must be selected in the insertion dialog opened in HW Config.
- Importing the hardware configuration to a project: After importing the hardware configuration to a project (HW Config), check the assignment of the device description (EDD) to the field devices. In rare cases, an incorrect version of the device description may be assigned during the import.
- Devices following a DP/PA link may not receive an address of less than 3 in the LifeList if they are linked with HW Config.
- SIMATIC PDM recalculates parameters accordingly if the associated unit is changed. In some cases, you can choose from units of different physical dimensions. There is no automatic recalculation in this case. The parameters remain marked as 'not converted' until they are downloaded to the device.
- The short address 0 is required for HART devices for remote I/Os (e.g. ET 200M or ET 200iSP) and for the enabled multiplexers.
- When the `read_szl_directory` (read system status lists) is used, a data packet with 11 x 4 x 2 bytes is expected in response. However, the ET 200iSP device only returns, for example, 6 x 4 x 2 = 48 bytes, which means only 6 instead of 11 lists. PDM fills the internal variables with the received data until no more data is available. A warning is generated for all unfilled variables for which no more data is available.
- Note the following when entering integer values:
  A sequence of numbers starting with zero is evaluated as an octal number.
- The PG/PC interface may not be set to "PC internal" for communication via PROFIBUS. To reset this setting, open the application "Set the PG/PC interface" and select the required interface, for example, CP 5611 (PROFIBUS).

- The CPU must be in "STOP" mode when you write the I&M data (for example, module name) to the HART modules (6ES7 331-7TF01-0AB0 and 6ES7 332-8TF01-0AB0); otherwise, you may experience connection failures and error messages. You can find more information on the data record interface and user data in the documentation *SIMATIC; Distributed I/O Device ET 200M; HART Analog Modules* in the section "I&M identification data".
- Conversion of old projects:
  - Before conversion, the manufacturer-specific device description should be assigned to a PROFIBUS PA device with an assigned profile 2 device description in the old project. Otherwise, no device description can be assigned to these devices during project conversion.
  - Before a project is migrated with SIMATIC PDM , all device descriptions used in the project must be integrated on the computer. Otherwise, the devices must be deleted from HW Config and re-configured, which can lead to a download via "STOP" mode.
- The manual for device integration is available in English only. You can find the PDF document on the Product CD of SIMATIC PDM in the folder:
  CD_1_Documentation\DeviceIntegration\Manuals
- If you specify a password for specific devices in the user administration window, you must click the "Transfer" button successively to separately update the "New password" and "Confirm new password" fields.
  Carry out the following steps:
  1. Enter the new password
  2. Confirm the password
  3. Click "Transfer".
  4. Leave new password
  5. Confirm the password
  6. Click "Transfer"
- If you use PROFINET Compact devices in your plant and wish to configure them with PDM, only the EDD/GSDML files available on the device DVD have been checked and are guaranteed in terms of full functionality.
- The test license has only four tags. Please take this into consideration with respective to maintenance projects that require more tags.

Note

Object editing

We generally recommend that the offline parameter set in SIMATIC PDM is synchronized with the online parameter set in the object before you change the parameter assignment of an object.

- **Note**

  Handling of redundant objects in the process device plant view

  Two data sets are created for redundant objects in SIMATIC PDM that are not synchronized via SIMATIC PDM. This is also true for PROFINET field devices that are operated as S2 devices (communication redundancy, no hardware redundancy). If these objects are edited in the process device plant view, you must ensure that the two offline data sets have been synchronized with the parameter assignment in the redundant object before you change the parameter assignment of these objects. This means, for example, that the "Download to PG/PC" function should be executed for both data sets that are assigned to the redundant object before you start editing.

  Note

  Handling of redundant objects in the HW Config of SIMATIC PCS 7 /STEP 7

  Two data sets are created for redundant objects in SIMATIC PDM that are not synchronized via SIMATIC PDM. This is also true for PROFINET field devices that are operated as S2 devices (communication redundancy, no hardware redundancy). If these objects are edited in HW Config, SIMATIC PDM uses only one of the two data sets. The parameters are only synchronized in the hardware. We therefore recommend that you synchronize both data sets of the object in the process device plant view with the "Download to PB/PC" function after editing a redundant object in HW Config.

- **Note**

  SIMATIC PDM on operating system Windows 10 Enterprise 2015 LTSB

  You cannot use "Print as PDF" here.

- **Note**

  The FDI/EDD description of the field device manufacturers combines several parameters in one communication job to optimize the communication. SIMATIC PDM may therefore not be able to read parameter-granular data from the field device, based on the manufacturer's FDI/EDD.

  However, SIMATIC PDM automatically determines the minimum number of read jobs to be executed in order to read the parameters requested by the user online. If parameters not selected by the user as online are also communicated in these read jobs, SIMATIC PDM also updates these in the offline data storage.

FOUNDATION Fieldbus

- CIF interconnection
  Maintenance station: If a new CIF interconnection is configured in an FF segment using the Connection Editor, the corresponding block is only included in the device diagnostics on the maintenance station after the SIMATIC PDM ASSET Service has been restarted.
- Under certain circumstances it might be necessary to recalculate the FF macro cycle in HW Config before the loading the Scheduler.

- Assigning address and TAG:
  The following error message can be displayed for devices when you use the "Assign address and TAG" function from PDM or from the LifeList:
  "Assignment of "Object name" failed. Communication: DPT transaction failed. The device signals a status conflict.
  When you see this error message, you can change the TAG in PDM in the parameter table and then transmit it to the device with "Load to Devices".
  See also the chapter Identification data I&M in the manual of the ET 200M HART analog modules.
- Loading FOUNDATION Fieldbus
  - The function "Download" or "PLC --> Download" of an AS station in the component view of the SIMATIC Manager does not download PDM devices. The complete download of an AS station (including link and interconnections) must therefore take place in HW Config. A description of the different download options of FOUNDATION Fieldbus devices is included in the following documentation:
    PCS 7 - FOUNDATION Fieldbus.
- Redundancy:
  If the SF LED is lit in both IM modules after download to HW Config and the diagnostic message "FF Master: Configuration error" is pending, the reason could be an incorrect structure:
  The left IM 153-2 FF interface module of the "FF Link" bus link must always be connected to Rack 0 of the H system.
  For more information, please refer to the following documents:
  - Operating instructions *Bus Link; FF Link* (A5E02338783-01)
  - *PCS 7 - FOUNDATION Fieldbus*
- Bus parameters:
  The two parameters "`Post Trans Gap Extension`" and "`Max Inter Chan Signal Skew`" should be set to "0" when using all FF links.
- "Value comparison" is deactivated for FF devices.

SIMATIC PDM Web

- The SIMATIC PDM help and the device help files are not accessible when SIMATIC PDM Web is called from the Maintenance Station or faceplate.
- Access to the network paths in the document manager when it is called via SIMATIC PDM Web is not possible.
- The export files of devices can contain invalid characters for the HTML visualization after a download to PG/PC and therefore may not be displayed correctly in the browser. An import of these files is possible at any time without restrictions.
- The PDM Server and PDM Web Client licenses should be installed locally on the PC that is used as PDM Server.
- After an update installation of SIMATIC PDM you have to call and reconfigure the SIMATIC PDM Server configuration tool (see section SIMATIC PDM - Server configuration tool in the manual).
- A maximum of four simultaneous PDM web pages are allowed from the same Windows user session.

- The connection from PDM client PC is possible only with MS Edge Chromium or Chrome.
- The maintenance project must always be on the PDM server.
- **Note**

  Please take into consideration that it is always necessary to log out of all opened websites (such as the view for the device parameters) explicitly and independently of each other.

Notes on the documentation 11

PUD Manager links to the Service & Support Portal for Windows Server 2019

For security reasons, links from Plant and User Documentation Manager (PUD Manager) to the Service & Support Portal (SIOS) do not work with Windows Server 2019.

You can find more information on this topic in the Process Control System PCS 7; PUD Online Help under Technical Documentation (https://support.industry.siemens.com/cs/ww/en/view/109801081).

PUD Manager

When using the PUD Manager, the user must observe the following essential points:

- The first help call takes more time because of the initialization of the PUD Manager. The Autostart setting is only active on ES/Single Station. The initial startup time ranges from 30 s to 120 s.
- After initialization, the PUD Manager remains active in the main memory (RAM) to ensure a faster response to subsequent help calls.
- The RAM used can be emptied by the user if required. The PUD Manager must be shut down via the **Taskbar > Right mouse button > Exit**. After quitting, the PUD Manager behaves as mentioned in the two points above.

Note

If the user starts the Information Server on a computer on which PCS 7 is not installed and then presses the help button, the web viewer is started.

Note

1. "SIMATIC PDM Standalone from Version V9.2: The application help is available via the desktop link 'PUD Manager HelpViewer'. Access via the application menu "Help" is not available".
2. "If SIMATIC PDM is used in the context of SIMATIC PCS 7 V9.0.3, the SIMATIC PDM help is available via the desktop link 'PUD Manager HelpViewer'. Access via the application menu "Help" is not available".

Language concept of PUD Manager

As of PUD Manager V2.1.1, a new language concept is introduced.

This is characterized by the following features:

- The language concept of the PUD Manager provides only English as default language and the selected setup language.
- Other supported languages are copied to the drive.
- To import additional languages into the PUD Help Viewer, you must be logged in as "Administrator".

To update languages via the PUD user interface

1. Ensure that no PUD Manager session is open.
2. The PUD Manager must be closed via the icon in the taskbar with **Taskbar > Right mouse button > Exit**.
3. Click on "Run as administrator" in the PUD Manager Help Viewer.
4. Click the "Administration" icon and select "Show document overview".
5. Select the language packages that you want to install.
6. Click "Install".

Documentation packages in PUD Manager Help Viewer

When installing PCS 7 V10.0, the online help contains the integrated PUD files of the following manuals as well as the documentation of various product components of PCS 7:

- PCS 7 Documentation V10.0
- PCS 7 - Operating Instructions - OS Process Control V10.0
- PCS 7 - Installation Manual - PC Configuration V10.0
- PCS 7 - Configuration Manual - Engineering System V10.0
- PCS 7 - Configuration Manual - Operator Station V10.0

The user can update or customize his own collection of manuals. More information is provided in the Process Control System PCS 7, PUD Manager Online Help (https://support.industry.siemens.com/cs/ww/en/view/109748882).

Corrections

The following must be replaced in the section "Preface" under "Scope".
OLD:
This documentation is valid for the SIMATIC PDM V9.2 software package.

NEW:
This documentation is valid for the SIMATIC PDM V9.3 software package.

The following must be replaced in the section "Product packages for SIMATIC PDM".
OLD:

Components		**Product packages**							
		SIMATIC PDM stand-alone				**SIMATIC PDM system integrated**			
		Minimum configuration	**Basic configuration**	**Server**	**Application-specific configurations**				
		SIMATIC PDM Single Point	**SIMATIC PDM Basic**	**SIMATIC PDM stand-alone server**	**SIMATIC PDM Service**	**SIMATIC PDM S7**	**SIMATIC PDM PCS 7**		
		V9.2	**V9.2**	**V9.2**	**V9.2**	**V9.2**	**V9.2**	**Server V9.2**	**FF V9.2**
SIMATIC PDM TAG (license included in scope of delivery[1)])		1	4	100	4 + 50	4 + 100	4 + 100	4 + 100	4 + 100
SIMATIC PDM extension options									
Count Relevant Licenses (cumulative)	• 10 TAGs • 100 TAGs • 1000 TAGs	Not expandable (can only be used for a single device and cannot be extended with other options)	○[2)]	○	○[2)]	○	○	○	○
SIMATIC PDM Basic			●	●	●	●	●	●	●
SIMATIC PDM Extended			○	●	○	●	●	●	●
SIMATIC PDM Integration in STEP 7 / PCS 7			○	●	○	●	●	●	●
SIMATIC PDM Routing[2)]			○[2)]	●	○[2)]	○	●	●	●
SIMATIC PDM Server			○	●	○	○	○	●	○
SIMATIC PDM FOUNDATION Fieldbus			○	○	○	○	○	○	●
HCF HART Server			○	○	○	○	○	○	○
SIMATIC PDM Command Service[3)]			○	-	○	-	-	-	-

NEW:

Components		**Product packages**							
		SIMATIC PDM stand-alone				**SIMATIC PDM system integrated**			
		Mini-mum config-uration	**Basic config-uration**	**Server**	**Application-specific configurations**				
		SIMAT-IC PDM Single Point	**SIMAT-IC PDM Basic**	**SIMAT-IC PDM stand-alone server**	**SIMAT-IC PDM Service**	**SIMAT-IC PDM S7**	**SIMATIC PDM PCS 7**		
		V9.3	**V9.3**	**V9.3**	**V9.3**	**V9.3**	**V9.3**	**Server V9.3**	**FF V9.3**
SIMATIC PDM TAG (license included in scope of delivery[1])		1	4	100	4 + 50	4 + 100	4 + 100	4 + 100	4 + 100
SIMATIC PDM extension options									
Count Relevant Licenses (cumulative)	• 10 TAGs • 100 TAGs • 1000 TAGs	Not expandable (can only be used for a single device and cannot be extended with other options)	○[2]	○	○[2]	○	○	○	○
SIMATIC PDM Basic			●	●	●	●	●	●	●
SIMATIC PDM Extended			○	●	○	●	●	●	●
SIMATIC PDM Integration in STEP 7 / PCS 7			○	●	○	●	●	●	●
SIMATIC PDM Routing[2]			○[2]	●	○[2]	○	●	●	●
SIMATIC PDM Server			○	●	○	○	○	●	○
SIMATIC PDM FOUNDATION Fieldbus			○	○	○	○	○	○	●
HCF HART Server			○	○	○	○	○	○	○
SIMATIC PDM Command Service[3]			○	-	○	-	-	-	-

Contact partner

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Your contact partner (not for demo version)

Questions on SIMATIC STEP 7 / SIMATIC PCS 7 / hardware / SIMATIC PDM / problems with S7 communication

Internet: https://www.siemens.com/in/en/products/services/industry.html (https://www.siemens.com/in/en/products/services/industry.html)

Questions on devices and GSD files

Please get in touch with your contact partner at the device manufacturer.
For more information, refer to the "List of integrated devices". You will find this on the "SIMATIC PDM Device Library 1#2024" in the "_manuals" directory.

Follow-up installations and more information on SIMATIC PDM are available on the Internet at "www.siemens.com/simatic-pdm (www.siemens.com/simatic-pdm)".