

SIMATIC

Process control system PCS 7 PCS 7 Documentation (V9.0 SP1)

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Valid for PCS 7 as of V9.0 SP1

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

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>.

Options for Accessing Documentation

This documentation gives you an overview of the most important documents available for PCS 7. The following sections are assigned to the phases of a plant. You can find information on available and required documentation for each phase.

Phases:

- Planning (Page 11)
- Implementation (Page 13)
- Commissioning, operation, diagnostics and servicing (Page 19)

Types of documentation

The documentation required for PCS 7 includes the following types:

- **PCS 7 Readme**

The readme file is available in two versions:

- **PCS 7 Readme (offline)**

This version is installed by PCS 7 Setup. The file only contains general information and links to documents on the Internet.

- **PCS 7 Readme (online)**

This version contains all information on the installation and use of PCS 7 in the format which is already familiar to you. The file is only available on the Internet to keep it always up-to-date.

Note

The information provided in the *PCS 7 Readme (online)* on the Internet takes precedence over **all** *PCS 7* documentation, both *PCS 7 Readme (offline)* as well as **all** other documentation on PCS 7.

Read this *PCS 7 Readme* carefully, because it contains important information and amendments on PCS 7.

- **PUD Manager**

The "PUD Manager" an innovative tool to access documentation, comes with PCS 7 DVD. Some of the highlights:

- Create your own Manual Collection.
- Customize the documentation set according to your needs.
- Efficient search engine to access your information.

To install the PUD Manager and integrate the documents, refer to Siemens Industry Support (<https://support.industry.siemens.com/cs/ww/en/view/109748882>).

- **PCS 7 System Documentation**
System documentation contains information that covers several products, such as configuration manuals and Getting Started manuals. This documentation serves as a guideline for the overall system and explains the interaction between the individual hardware and software components.
See the note on the "PCS 7 Documentation Portal Setup" in the paragraph below.
- **PCS 7 Product Documentation**
Product documentation contains information about special hardware and software components. The individual documents provide detailed information on the specific component.
- **PCS 7 Technical Information and Solutions**
For important technical information and solutions, refer to SIMATIC PCS 7 Overview (<https://support.industry.siemens.com/cs/ww/en/view/63481413>).

All full and current versions of the documentation are available from the "Technical Documentation SIMATIC PCS 7" Internet pages: www.siemens.com/pcs7-documentation (www.siemens.com/pcs7-documentation)

Access options

You can find the PCS 7 documentation at the following locations:

- On the DVD *Process Control System SIMATIC PCS 7*
- After installation, on the computer
- On the Internet

On the DVD *Process Control System SIMATIC PCS 7*

- **PCS 7 Readme (offline):**
DVD_1 *SIMATIC PCS 7* in the root directory and
DVD_1 *SIMATIC PCS 7* in the folder "_Product_Information"
- **PUD Manager**
PUD Manager for PCS 7 Documentation (Page 21)
- **PCS 7 System Documentation is available:**
On the DVD_1 *SIMATIC PCS 7* in the folder "_Manuals"
- **PCS 7 Product Documentation:**
The product documentation is installed with the relevant product

After installation, on the computer

- **PCS 7 Readme (offline):**
In the Windows Start menu using the path:
Siemens Automation > Documentation > Readmes > Language
If you use the operating system Windows 10, you can find the Siemens SIMATIC programs in the Start menu under **All apps > Siemens Automation**.

- **PCS 7 System Documentation:**

- As PUD Manager in SIMATIC manager using the path.
SIMATIC Manager > Help > Introduction
(Online help for STEP 7 appears in **SIMATIC Manager > Help > Contents**)
- On the engineering station as a PDF file in the Windows Start menu using the path:
Siemens Automation > Documentation > Manuals > Language

Note

The following PCS 7 system documentation is included:

- Product overview *Process Control System PCS 7; PCS 7 Documentation*
 - Configuration manual *Process Control System PCS 7; Engineering System*
 - Function manual *Process Control System PCS 7; PCS 7 - PC Configuration*
 - Configuration manual *Process Control System PCS 7; Operator Station*
 - Function manual *Process Control System PCS 7; OS Process Control*
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- **PCS 7 Product Documentation:**

The product documentation is installed with the relevant product

In the Internet (current versions)

You can find the latest documentation on the PCS 7 versions in the website "SIMATIC PCS 7 Technical Documentation":

- In the section "Software manuals for SIMATIC PCS 7 ..."

- The link to the latest system and product documentation of the particular PCS 7 version.
- The link to download the setup for the latest system documentation "PCS 7 Documentation Portal Setup" (SIMATIC PCS 7 online help).

Note

PCS 7 Documentation Portal Setup

Setup includes the complete system documentation for PCS 7 (PDF files and PUD help).

- You can install this Setup without PCS 7.
- The following documentation is updated when you install the Setup on the engineering station (completed and overwritten - if you select the original installation folder):
 - PUD Manager for "SIMATIC Manager" application: **SIMATIC Manager > Help > Introduction**
 - PCS 7 System Documentation in the Windows Start menu: (PDF files) **Siemens Automation > Documentation > Manuals > Language**
- The PCS 7 Newsletter keeps you informed when new versions of the system documentation become available.

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- The link to download the entire PCS 7 documentation as a *Manual Collection* in the My Documentation Manager (<http://support.industry.siemens.com/cs/ww/en/view/59538371>).
The *Manual Collection* includes the manuals for hardware and software.

- In the section "Hardware Manuals for SIMATIC PCS 7 ..."

- The link to the latest manuals for components approved for a PCS 7 version.
- The link to the latest manuals for approved SIMATIC PCS 7 industry software for PCS 7.

Catalogs, brochures, customer magazines and demo software

You can find this information on the Internet at: Information and Download Center (<https://support.industry.siemens.com>)

Documentation for the Planning Phase

Overview

You can find the following PCS 7 documentation in the table below:

- Documentation that provides an overview of the systems and components for PCS 7.
- Documentation that supports you in planning your PCS 7 plant.

Documentation	Content
<i>PCS 7 Readme (online)</i>	Latest information on installation and use of PCS 7 software
Information about the range of services	
Catalog ST PCS 7	Standard catalog for system components of a PCS 7 plant Ordering information for all hardware and software components you may require for automation with PCS 7.
Catalog ST PCS 7 T	Standard catalog for technological components for SIMATIC PCS 7 Integrated technologies, industry expertise and service for more productivity, energy efficiency and flexibility. Ordering information for technological components that can be integrated in your PCS 7 plant for complete solutions.
Catalog ST PCS 7 AO	Standard catalog for add-ons for SIMATIC PCS 7 Drive and automation solutions based on Totally Integrated Automation (TIA) and Totally Integrated Power (TIP) for implementation in manufacturing, process and building automation. Ordering information for add-ons for SIMATIC PCS 7 that can be integrated in your PCS 7 plant for complete solutions.
Catalog CA 01	Products for automation and drive engineering - interactive catalog CA 01 (DVD)
Specifying the components and the systems for the PCS 7 plant	
Configuration manual <i>PCS 7 Engineering System</i>	Section "Engineering system": • Capacity options in configuring a PCS 7 plant • Selecting the network components • Selecting PC components for engineering and operator control and monitoring • Selecting AS components • Selecting I/O components • Preparations for efficient engineering
Manual <i>PCS 7 - PC Configuration</i>	Comprehensive overview of PC configurations for engineering and operator control and monitoring: • Areas of application for the various PC configurations • Design and configuration of the PC networks • Required hardware and software for the PC components

Documentation	Content
Operating manual <i>Process Control System PCS 7; Compendium Part B – Process Safety</i>	Process Safety including two checklists Realization of the fail-safe part of an S7 program using the following F-software components: • S7 F Systems • Safety Matrix Engineering Tool
Operating manual <i>Process Control System PCS 7; Compendium Part E – Hard- ware Installation</i>	Definition and description of test points for the hardware installation of process-related production facilities. • Lines and connection technology • Configuration and design of control cabinets • Earthing, potential equalization and lightning protection • Bus lines
Whitepaper <i>Security Concept PCS 7 and WinCC</i>	Guide for network administrators for planning and installation of securely networked PCS 7 plants with connected PCS 7 Web clients, SIMATIC IT applications and customer-specific office networks: • Planning security cells and access points • Managing computers and users • Managing user permissions and access rights in PCS 7 and integration in the Windows management • Implementing patch management • Secure network access to security cells
Operating manual <i>Process Control System PCS 7; Compendium Part F – Industrial Security</i>	Guidelines for planning IT security in automation technology • Physical security measures • Organizational security measures • Access points • System hardening • Patch management • Malware detection & prevention
List <i>PCS 7 - Enabled modules</i>	List of modules released for PCS 7 versions
Function manual <i>PCS 7 Time Synchronization</i>	Support for planning time synchronization in a PCS 7 plant
Configuration manual <i>Ad- vanced Engineering System</i>	Used for data import and for bulk processing Data is imported into AdvES from process tag or signal lists and adopted in PCS 7. The documentation can be found in the Internet at the Siemens Industry Online Support (http://support.industry.siemens.com/cs/).

Documentation for the Realization Phase

Overview

You can find the following PCS 7 documentation in the table below:

- Documentation providing support for installing the PCS 7 software
- Documentation providing support for configuring the wiring of the hardware
- Documentation explaining the basic concept of engineering with PCS 7
- Documentation which helps you to fully configure your PCS 7 plant

Documentation	Content
Installation	
<i>PCS 7 Readme (online)</i>	Latest information with information about installation and using PCS 7 software
Manual <i>PCS 7 - PC Configuration</i>	Installation instructions and settings for PC configurations for engineering and operator control and monitoring: • Operating system • PCS 7 software • Special hardware and software
Whitepaper <i>Security Concept PCS 7 and WinCC</i>	Guide for network administrators for planning and installation of securely networked PCS 7 plants with connected PCS 7 Web clients, SIMATIC IT applications and customer-specific office networks: • Planning security cells and access points • Managing computers and users • Managing user permissions and access rights in PCS 7 and integration in the Windows management • Implementing patch management • Secure network access to security cells
First Steps	
Getting Started <i>PCS 7 - First Steps</i>	Uses a simple example project to show you the fundamental procedures and the interaction of the software components of SIMATIC PCS 7 during engineering and runtime. Time required for tutorial: approx. 1 hour
Assembling components and systems	
Configuration manual <i>PCS 7 Engineering System</i>	In the section "Configuration of PCS 7 Plants": • Basic configurations of a PCS 7 plant • Guide to the Installation Instructions for the Products • Special considerations, differences between PCS 7 and specifications in the product installation instructions • Rules for plant changes in runtime (CiR) • Installation Guidelines for PCS 7: EMC and lightning protection

Documentation	Content
Configuration manual <i>Advanced Engineering System</i>	Application for data import and bulk processing • Generation of control modules from signal lists • Generation of control modules from process tag lists • Creation of hardware configurations from signal lists (including the symbol table) • Use of control module types from PCS 7 (BCM and customer-specific) • Definition of variants with optional blocks • Bulk processing of control modules, signals, parameters and messages • Checking data consistency and validity • Generation of PCS 7 automation data • Use of messages at control modules
Function manual <i>Time synchronization</i>	Instructions for configuration and parameter assignment of time synchronization
Manuals for the automation system S7-400H/FH	• Instructions for configuring automation systems • Memory concept and startup scenarios • Cycle and reaction times • Technical specifications • Operation lists
System manual <i>CPU 410 Process Automation</i>	• Instructions for configuring the CPU 410 automation system • Memory concept and startup scenarios • Cycle and reaction times • Technical specifications • Operation lists
Manuals for S7-300 I/O Modules	• Manual for hardware configuration and parameter assignment of components • Technical specifications
Manuals on CPs and FMs (S7-400, S7-300)	• Manual for hardware configuration and parameter assignment of components • Technical specifications
Manuals for ET 200 components • ET 200M • ET 200S • ET 200SP • ET 200iSP • ET 200pro • ET 200SP HA	• Manual for hardware configuration and parameter assignment of components • Technical specifications

Documentation	Content
Manuals for additional DP components: • Diagnostic repeaters • PA-Link • Compact FF-Link • Y-Link • DP/AS-i-Link	• Manual for hardware configuration and parameter assignment of components • Technical specifications
Manuals on networks for industrial use, for example: • Industrial Ethernet • PROFIBUS • PROFINET	• Topologies and network configuration • Configuration of the communication
Manuals for SIMATIC NET components: CPs for Industrial Ethernet and PROFIBUS, SCALANCE X, etc.	• Topologies and network configuration • Installation instructions • Technical specifications
Engineering	
Getting Started <i>PCS 7 - Part 1</i>	Introduction to the basic functions of PCS 7 based on the PCS 7 example project "COLOR". It contains the most important background information required to understand the individual engineering tasks and detailed instructions for step-by-step post-configuration. You activate OS process mode once configuration is complete. We recommend working through this Getting Started tutorial before beginning work with the <i>PCS 7 Engineering System</i> configuration manual. Time required for tutorial: approx. 16 hours
Getting Started <i>PCS 7 - Part 2</i>	Introduction to Using the Efficient Engineering functions in PCS 7. The basis for this is the PCS 7 "COLOR" project in Getting Started PCS 7 - Part 1. We recommend working through this Getting Started tutorial if you plan to configure large PCS 7 plants with a large number of process tags. Time required for tutorial: approx. 16 hours
SIMATIC BATCH Getting Started	Introduction of the basic functions of SIMATIC BATCH. It contains the most important background information required to understand the individual engineering tasks and detailed instructions for step-by-step post-configuration. You activate process mode once configuration is complete. We recommend you work through this Getting Started before beginning work with SIMATIC BATCH.
PCS 7 manual <i>Software Update without Utilization of the New Functions</i>	Step-by step instructions for migrating your PCS 7 project from PCS 7 V8.2 to V9.0 SP1 without subsequent utilization of new PCS 7 functions.

Documentation	Content
PCS 7 manual <i>Software Update with Utilization of the New Functions</i>	Step-by-step instructions for migrating your PCS 7 project from PCS 7 V8.2 to V9.0 SP1 with subsequent utilization of new PCS 7 functions.
Configuration manual <i>PCS 7 Engineering System</i>	Sections for configuring the engineering system: • Basic concepts of engineering • Configuration of the engineering system • Configuring in the PCS 7 Engineering System • Compiling, downloading, testing, archiving and documenting project data
Configuration manual <i>PCS 7 Operator Station</i>	Complete information about configuring the operator station and the HMI system of PCS 7: • Configuring OS data • Creating process pictures • Message system settings • Options for archiving • Downloading a project and configuration changes • Time synchronization and lifebeat monitoring • Using server-server communication
Manual <i>PCS 7 Maintenance Station</i>	Using diagnostic functions (Maintenance Station)
Manual <i>PCS 7 Web Option for OS</i>	Using PCS 7 Web Server and PCS 7 Web Client
System manual <i>SIMATIC; Process Historian Administration</i>	Use of the external archive server, " <i>Process Historian</i> " Archiving system that is used to store process data such as process values and messages.
System manual <i>SIMATIC; Information Server Administration</i>	Use of the reporting system, " <i>Information Server</i> " Reporting system for historical data of process values, messages or recipe data. Data sources can be stations: • Process Historian • PCS 7 OS • WinCC
Manual <i>SIMATIC PCS 7/ SIMATIC IT Integration Manual</i>	Information for a better understanding of the integration of MES functions in PCS 7 with SIMATIC IT: • Basics of SIMATIC IT and PCS 7 • Implementing the ISA-95/ISA-88 standards • Integration of SIMATIC IT Historian and SIMATIC BATCH • Data management in SIMATIC IT and PCS 7 • Functionality and data communication and data flow • Configuration procedure based on an example project

Documentation	Content
Operating manual <i>PCS 7 SIMATIC BATCH</i>	Complete information about configuring the BATCH station, the system for automating batch processes: • Technological basis according to ISA-88.01 • Configuring batch plant data • Creating recipes • Planning and controlling batches • Managing and archiving batch data
Manual <i>PCS 7 SIMATIC Route Control</i>	Complete information about configuring the route control station, the system for controlling routes: • Creating the program for route control • Functions of the block library • Configuring materials and transport routes
Function manual <i>PCS 7 High Availability Process Control Systems</i>	Description of the solution concepts, function mechanisms and the most important configurations for installing high availability systems with PCS 7. It presents the availability solutions on all automation levels (control, process, field).
Function manual <i>PCS 7 High-precision Stamping</i>	Comprehensive overview of required components, the interaction among the components and their configuration for using high-precision time stamps
Function manual <i>PCS 7 Time Synchronization</i>	Comprehensive overview of required components, the interaction among the components, and their configuration for using time synchronization.
Manual <i>PCS 7 Basis Library</i>	Driver and diagnostic blocks Description of methods of operation, block I/Os and input/output fields of the respective faceplates
Manual <i>PCS 7 Advanced Process Library</i>	Process automation blocks - expandable Description of methods of operation, block I/Os and input/output fields of the respective faceplates
Configuration Manual <i>Process Control System SIMATIC PCS 7; Logic Matrix</i>	Sections on configuring logical operations (e.g. for the following functions: releases; protection; interlocks). The Logic Matrix Editor is the tool for creating and optimizing the logical operations in PCS 7. Note: The Logic Matrix is delivered as a part of PCS 7 V9.0 SP1 DVD and should be installed via the PCS 7 frame setup.
Operating manual <i>Process Control System PCS 7; Compendium Part A - Configuration Guidelines</i>	Configuration guidelines including checklist
Operating manual <i>Process Control System SIMATIC PCS 7; Compendium Part C - Equipment Phases with SFC Types</i>	Realization of technical functions using SFC types. • Functions for plants with continuous processes • Integration of SIMATIC BATCH • Solutions and recommendations

Documentation	Content
Manual <i>PCS 7 Programming for Instructions for Blocks</i>	Information, design guidelines and rules for adapting project-specific blocks to the "Standard Library". Explanation of how AS blocks and faceplates conforming to PCS 7 are created to achieve the following: • Monitor parameter values through a faceplate • Control parameter values and therefore the reactions of blocks through a faceplate • Report asynchronously occurring events and block states on the OS and display them in a faceplate or a WinCC message list
Manual <i>Programming Manual/APL Style-guide</i>	Information, design guidelines and rules for adapting project-specific blocks to the "Advanced Process Library". (separately ordered)
Manuals for the individual engineering tools: CFC, SFC, STEP 7, SFC Visualization, PDM, WinCC, LT Options, SCL, DOC-PRO	• Basics of the engineering tool • Working with the engineering tool • Testing and commissioning the engineering tool
<i>Readme</i> and <i>What's new</i> for the individual engineering tools: CFC, SFC, STEP 7, SFC visualization, PDM, SCL, DOCPRO	• Latest information with notes about installation of the engineering tool • Compact summary of the new or changed features in comparison to previous versions
<i>PCS 7 - FOUNDATION Fieldbus</i> documentation	Description of the solution concepts, functional mechanisms and most important configurations for the integration of devices on a FOUNDATION Fieldbus in PCS 7.

Documentation for Commissioning, Operation, Diagnostics and Servicing

5

Overview

You can find the following PCS 7 documentation in the table below:

- Documentation providing support for commissioning and operating in process mode
- Documentation providing support for performing servicing

Documentation	Content
Process mode	
Manual <i>PCS 7 OS Process Control</i>	Graphical user interface and operator input at the PCS 7 OS in process mode: • Message system • Trend system • Group display • Operator process control
Manual <i>PCS 7 Web Option for OS</i>	Working with PCS 7 Web Client/PCS 7 Web Diagnose Client
Manual <i>PCS 7 Maintenance Station</i>	Using diagnostic functions (Maintenance Station)
System manual <i>SIMATIC; Information Server Operating Manual</i>	Use of the reporting system, " <i>Information Server</i> " Collection, evaluation and graphic display of process values, messages and recipe data of a process control system
Manual <i>PCS 7 SIMATIC Route Control</i>	• Route control • Managing and logging routes
Manual <i>PCS 7 Service Support and Diagnostics</i>	This documentation is aimed at trained service personnel (Service Level 1): PCS 7 users and SIMATIC S7 specialists This manual contains the information to support you in the following tasks: • Ensuring availability of your PCS 7 plant • Understanding the alarm concept of your PCS 7 plant • Finding the right diagnostic tools when a fault occurs • Using the right procedure when a fault occurs and providing qualified, detailed information about the state of the PCS 7 plant to service experts
Operating manual <i>Process Control System PCS 7; Compendium Part D – Operation and Maintenance</i>	Scenarios during ongoing operation of a plant (including checklist) • Maintenance • Expansion and upgrading • Operation and maintenance

Documentation	Content
Operating manual <i>Process Control System PCS 7; Compendium Part E – Hardware Installation</i>	Definition and description of test points for the hardware installation of process-related production facilities. • Lines and connection technology • Configuration and design of control cabinets • Earthing, potential equalization and lightning protection • Bus lines
Manuals for the automation system S7-400H/FH	• Commissioning • Maintenance
Manuals on CPs and FMs (S7-400, S7-300)	• Diagnostics
Manuals for ET 200 components • ET 200M • ET 200S • ET 200SP • ET 200iSP • ET 200pro • ET 200SP HA	• Commissioning • Diagnostics • Maintenance
Manuals for additional DP components: • Diagnostic repeaters • PA-Link • Y-Link • Compact FF-Link • DP/AS-i-Link	• Commissioning • Diagnostics
Manual <i>Programming with STEP 7</i>	Hardware diagnostics and troubleshooting

How to open PUD Manager

Updating the PUD Manager

After the installation, follow these steps to update the PUD Manager:

1. Download the PUD files from Internet (www.siemens.com/pcs7-documentation)
2. Copy the required documents to “C:\ProgramData\Siemens\PUDManager\Public\BaseSnippetsRepository\PendingUpdates”.

Note

Ensure that the “**Show hidden files, folders and drives**” option is enabled.

3. Launch the PUD Manager as “Administrator”.
4. Click “**Menu**” and then select “**Settings**”.
5. Select the required documents to be updated to the PUD Manager.
6. Restart the PUD Manager.

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