SIEMENS

SIMATIC

Process Control System SIMATIC BATCH Readme V10.0 SP1 (Online)

Readme

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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

1

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

This product is a part of SIMATIC PCS 7 and integrated into the overall plant security concept. Siemens strongly recommends setting up, operating, maintaining, and decommissioning the plant environment according to the SIMATIC PCS 7 Compendium Part F – Industrial Security: Technical documentation SIMATIC PCS 7 (https://support.industry.siemens.com/cs/ww/en/view/109815443).

Overview

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You have purchased the SIMATIC BATCH software package. Within the SIMATIC PCS 7 process control system, SIMATIC BATCH provides you with suitable solutions for automating discontinuous batch processes in all sectors of industry.

Note

Readme: Binding document

All the information in this document supersedes statements in other documents. This readme file contains important information on the installation and use of SIMATIC BATCH. You should therefore print out this information and read it carefully prior to installing and using the software. Functional extensions as compared to previous versions are described in the *SIMATIC PCS 7 process control system SIMATIC BATCH V10.0 SP1* manual.

Part A, Requirements and General Instructions

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4.1 Hardware requirements

To be able to use SIMATIC BATCH V10.0 SP1 the same hardware requirements apply as for SIMATIC PCS 7 V10.0 SP1.

These are listed in the file "SIMATIC PCS 7 Readme V10.0 SP1 (online)". You can find the "SIMATIC PCS 7 Readme V10.0 SP1 (online)" file for download under the entry ID 109976468 in Industry Online Support:

Internet link (https://support.industry.siemens.com/cs/ww/en/view/109976468)

SIMATIC BATCH also requires the following for a SIMATIC BATCH server:

- Approx. 400 MB of free hard disk space on the partition of your hard disk on which SIMATIC BATCH is installed. Additional space is also required for projects and the database. When working with SIMATIC BATCH, the database and batch data will increase and, if there is not enough storage space, database problems can occur if the data can no longer be stored because of the lack of storage space. For this reason, the user is advised to ensure sufficient memory space (recommended: >1 GB).
- A printer for the recipe reports. All printers with graphics capability supported by Windows are suitable.
- To achieve better performance with SIMATIC BATCH, note the following points when installing SIMATIC BATCH:
  - Set up the data storage of SIMATIC BATCH (shared folder "sbdata") on an additional physical hard disk.
  - If you use an SSD hard disk (Solid State Disk) approved by Siemens AG for the data storage, the performance can be further improved.
  - When using a hard disk RAID system on SIMATIC BATCH servers, make sure that the cache of the RAID controller is enabled.
    Note: Depending on the type of RAID system, battery backup might be necessary to ensure that there can be no loss of data when the cache is enabled. The performance might be lower if the cache is not enabled.

Note that, in AS-based operation, increased requirements apply regarding type and memory configuration of the AS used.

Note

The CPU 410 SMART and CPU 410E (Entry) do not support the AS-based operating mode.

4.2 Software requirements

SIMATIC BATCH V10.0 SP1 is approved for SIMATIC PCS 7 V10.0 SP1.

The software requirements for operating systems listed in the file "SIMATIC PCS 7 Readme V10.0 SP1 (online)" apply to PCs that are configured as BATCH server, as BATCH client and as BATCH single station system.

To be able to use SIMATIC BATCH components, you require various licenses (basic license type: floating or single). The licenses can be part of the scope of delivery.

You can find more information on licenses in the file "SIMATIC PCS 7 Readme V10.0 SP1 (online)".

You can find the "SIMATIC PCS 7 Readme V10.0 SP1 (online)" file for download under the entry ID 109976468 in Industry Online Support:

Internet link (https://support.industry.siemens.com/cs/ww/en/view/109976468)

4.3 McAfee Application Control

McAfee Application Control

When using McAfee Application Control for SIMATIC BATCH, note the following:

To ensure that the report templates are available for the "Print" and "Print preview" commands in BatchCC, add the application "ReportingServicesService.exe" to the McAfee Application Control whitelist. Depending on the configuration of the McAfee system, centrally via the ePO or locally on the PC.

The application is part of the SQL Server and it is normally located in the following path:

<Path[(1)]>\Microsoft SQL Server\MSRSXX_XX.INFSERVER\Reporting Services\ReportServer\bin\ - (XX_XX stands for the relevant SQL Server version)

[(1)]Depending on the operating system installed

Part B, Installation

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5.1 Installing SIMATIC BATCH

Observe the following points in addition to the procedures described in the manual *Process control system SIMATIC PCS 7; SIMATIC BATCH*:

- Using virus scanners
  You can find information about the virus scanners approved for "SIMATIC PCS 7 V10.0 SP1" in the file "SIMATIC PCS 7 Readme V10.0 SP1 (online)".
  You can find the files for download under the entry IDs 109976468 in Industry Online Support:
  Internet link (https://support.industry.siemens.com/cs/ww/en/view/109976468)
- Installing third-party programs

  Installing programs not approved by Siemens and operating them at the same time as SIMATIC BATCH can have negative effects on the system response of SIMATIC BATCH. You, as the user, are solely responsible for such effects.
  No additional software should be installed on runtime servers.
- Commissioning a SIMATIC BATCH server
  Configure the security settings on the SIMATIC BATCH server before you start the SIMATIC BATCH system.
  You can find information on this in the *Process Control System SIMATIC PCS 7; SIMATIC BATCH* manual, in the section "Configuring the security settings on the SIMATIC BATCH server".

Part C, Special Features and Notes on Use

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6.1 General

Software update

You can update SIMATIC PCS 7 projects of the following SIMATIC BATCH versions to SIMATIC BATCH V10.0 SP1:

- SIMATIC BATCH AS based
  - SB AS based V6.1 (incl. SPs and HFs) (only with Siemens Support)
  - SB AS based V7.0 (incl. SPs and HFs)
- SIMATIC BATCH
  - SB V6.0 (up to SP3 and HFs) via SB V6.0 SP4 via SB V6.1 SP3
  - SB 7.0 (incl. SPs and HFs)
  - SB 7.1 (incl. SPs and HFs)
  - SB V8.0 (incl. SPs and UPDs)
  - SB V8.1 (incl. SPs and UPDs)
  - SB V8.2 (incl. SPs and UPDs)
  - SB V9.0 SP1
  - SB V9.1 (incl. SPs and UPDs)
  - SB V10.0

Enhanced Search Function for Master Recipes

The existing search function is used to detect potentially blocking structures within a master recipe. A new option, "Transition after Synchronization" has been added to facilitate searching at different levels of the tree in master recipes.

Runtime Behavior of Parallel Branches on RUP Level

When you upgrade SIMATIC BATCH V8.x to V9.x or V10.x in some cases batches can get blocked. Inserting NOPs after parallel branches or sync lines are resulting in the old behavior. During the creation of a master recipe the order of transitions and steps can be forced by a project setting. This is valid within ROPs and at the RUP level. The runtime behavior is different when a transition is directly placed after a parallel branch. Therefore, a NOP must be placed in between for the desired operation.
Use the new search feature to find possible blocking transitions. If the step above them is not self terminating, insert a NOP in between for the old behaviour.