

SIEMENS

SIMATIC

S7/HMI

SIMATIC Automation Tool V 3.0 release notes

Product Information

SIMATIC Automation Tool features

You use the SIMATIC Automation Tool for network maintenance and commissioning of S7-1200, S7-1500, ET200, HMI, and SITOP devices.

General feature overview:

- Scan the network and create a table that maps the accessible devices on the network
- Flash device LEDs or HMI screens to physically locate a device
- Download addresses (IP, subnet, gateway) to a device
- Download PROFINET name (station name) to a device
- Put a CPU in RUN or STOP mode
- Set the time in a CPU to the current time in your PG/PC (Programmer/Personal Computer)
- Download a new program to a CPU or HMI device
- Upload, download, or delete Recipe data from a CPU
- Upload or delete Data log data from a CPU
- Backup/Restore data to/from a backup file for CPU and HMI device
- Upload service data from a CPU
- Read the diagnostic buffer of a CPU
- Perform a CPU Memory reset
- Reset devices to factory default values
- Download a firmware update to a device

See the User Guide for details about product operation.

Note

Siemens recommends that you always use the latest version. You can only install one version on your PG/PC. The previous versions are available to support older operating systems, such as Windows XP. See the release notes of the older versions for operating system support information.

What's new in V3.0

- Supports five languages (German, English, French, Spanish, Italian)
- Supports Basic, Comfort, and Mobile HMI's
- Supports SITOP power supplies
- Supports recipes and data logs
- Requires a license for unlimited device support

Operating system and SIMATIC hardware support

Microsoft Windows operating systems not supported by V3.0

- The SIMATIC Automation Tool does not support Windows operating systems older than Windows 7. The SIMATIC Automation Tool installation is blocked.
- The SIMATIC Automation Tool does not support for Windows 32-bit operating systems. The SIMATIC Automation Tool installation is blocked.

Microsoft Windows 64-bit operating systems support for V3.0

SIMATIC Automation Tool V3.0 is tested and approved to work with the following 64-bit operating systems.

- Windows 7 Home Premium SP1
- Windows 7 Professional SP1
- Windows 7 Enterprise SP1
- Windows 7 Ultimate SP1
- Windows 10 Home Version 1607 (OS Build 14393)
- Windows 10 Pro Version 1607 (OS Build 14393)
- Windows 10 Enterprise Version 1607 (OS Build 14393)
- Windows 10 Enterprise 2016 LTSB (OS Build 14393)
- Windows 10 IoT Enterprise 2015 LTSB (OS Build 10240)

SIMATIC Automation Tool may install and work correctly with versions of Windows 64-bit operating systems that are not tested and approved.

There is no guarantee that untested versions work and technical support is not provided.

You can install the SIMATIC Automation Tool and use the unlicensed version to test the operations yourself, for untested Windows 64-bit operating systems.

Virtual machine software support

SIMATIC Automation Tool V3.0 is tested and approved to work with the following VM (Virtual Machine) software

- VMware Workstation 12.5
- VMware Player 12.5

Virus and security software support

SIMATIC Automation Tool V3.0 is tested and approved to work with the following virus and security software

- Symantec Endpoint Protection 14
- McAfee VirusScan Enterprise 8.8
- Trend Micro Office Scan Corporate Edition 12.0
- Kaspersky Anti-Virus 2017
- Windows Defender (as part of Windows operating systems)
- Qihoo "360 Total Security Essential" 8.8 (for Chinese market)
- McAfee Application Control 7.0.1
- Microsoft Bitlocker (part of the Windows operating systems)

Language support

The SIMATIC Automation Tool V3.0 user interface and Help guide supports the English, German, French, Spanish, and Italian languages.

Communication

This software uses an Ethernet cable connected to a PG/PC Network Interface Card, for communication with Siemens hardware devices.

Siemens hardware support¹

S7 CPU

- CPU 1200 (Standard and Fail-Safe) and I/O devices
- CPU 1500 (Standard and Fail-Safe) and I/O devices

ET 200

- ET 200AL
- ET 200eco
- ET 200M
- ET 200MP
- ET 200pro
- ET 200S
- ET 200SP

SIMATIC HMI

- HMI Basic
- HMI Comfort
- HMI Mobile

SITOP

- SITOP Power supplies

RFID (Radio frequency identification)

MOBY (DeviceNet interface)

¹ Depending on the device and firmware version, some SIMATIC Automation Tool operations are not supported. See the SIMATIC Automation Tool User guide topics for details about device, firmware version, and operation support.

Operating environment

Windows operating system settings

- You must log on with administrator privileges to install and work with the SIMATIC Automation Tool, under Windows 7 and 10.
- Disable hibernation mode when using the SIMATIC Automation Tool. Entering hibernation mode while online connections are open or while accessing project data through a network can cause errors.
- To avoid errors, set the energy saving options for the operating system in the Windows Control Panel to manual trigger. This ensures that hibernation is not automatically triggered by a timer. Do not manually trigger hibernation mode during a communication task.

Installation

To install the SIMATIC Automation Tool, follow these steps:

1. Log in with administrator privileges.
2. Close all applications including the Microsoft Office toolbar.
3. Double-click the "start.exe" file to start the setup program.
4. Follow the displayed instructions to complete the installation.

Installation restrictions

Only one version of the SIMATIC Automation Tool can be installed on a PG/PC. If you have a previously installed version (V1.0, V2.0, or V2.1.1), the older version must be uninstalled before installing V3.0.

The setup program for SIMATIC Automation Tool V3.0 checks for a previous installation. This check produces one of the following behaviors:

- If no version of SIMATIC Automation Tool is found, the setup can proceed.
- If a previous version of the application (V1.0, V2.0, or V2.1.1) is found, you are informed that you must uninstall the older version. You cannot proceed with the installation until you close and restart the installer.
- If a V3.0 installation is found, the setup presents options to modify/upgrade, repair, or uninstall the previous installation.

Known problems with the V3.0 release

IP address change operation fails on ET 200 devices

Cause:

A PROFINET name change operation was performed, before an IP address change operation.

Remedy:

Perform a "Reset factory defaults" operation. Then, perform the IP address change first, before the PROFINET name change operation.

Firmware update fails on devices that are indirectly connected behind a CPU

Cause:

For some device and network configurations, device firmware does not support a firmware update initiated by an indirect connection to the SIMATIC Automation Tool.

Remedy:

Use a direct connection for the firmware update operation. Connect the PG/PC running the SIMATIC Automation Tool to the problem device directly (a connection through an Ethernet switch is OK) and do not route communication through an intermediate device.

Program update rules

The program update operation is supported for standard CPUs and is not supported for Fail-Safe CPUs.

CPU Program update rules:

1. The firmware version of the CPU hardware must be greater than or equal to the firmware version in the project that you want to load.
You can work around this restriction by updating the firmware in the CPU, if possible.
2. For the S7-1200, S7-1500, and ET 200SP (S7-1500) CPUs, the program update operation is possible if the project's assigned CPU firmware version is supported as shown in the following tables.
3. Due to an S7-1200 V3.0 to V4.0 hardware and firmware change, combinations marked with * are not possible.

Program update support tables

- Program update is possible for combinations where ✓ is displayed.
- Program update is not possible where an empty cell or * is displayed.

| S7-1500 ET 200SP CPU | | CPU firmware version configured in project for download to CPU | | | | | | |
|--------------------------------|-----|--|-----|-----|-----|-----|-----|-----|
| | | 1.0 | 1.1 | 1.5 | 1.6 | 1.7 | 1.8 | 2.0 |
| Target CPU firmware version | 1.0 | ✓ | | | | | | |
| | 1.1 | ✓ | ✓ | | | | | |
| | 1.5 | ✓ | ✓ | ✓ | | | | |
| | 1.6 | ✓ | ✓ | ✓ | ✓ | | | |
| | 1.7 | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| | 1.8 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | 2.0 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

Use the TIA Portal to change an S7-1200 project's CPU version to a supported version for a successful program update.

| S7-1200 | | CPU firmware version configured in project for download to CPU | | | | | | |
|--------------------------------|-----|--|-----|-----|-----|-----|-----|-----|
| | | 2.0 | 2.1 | 2.2 | 3.0 | 4.0 | 4.1 | 4.2 |
| Target CPU firmware version | 2.0 | ✓ | | | | * | * | * |
| | 2.1 | ✓ | ✓ | | | * | * | * |
| | 2.2 | ✓ | ✓ | ✓ | | * | * | * |
| | 3.0 | ✓ | ✓ | ✓ | ✓ | * | * | * |
| | 4.0 | * | * | * | * | ✓ | | |
| | 4.1 | * | * | * | * | ✓ | ✓ | |
| | 4.2 | * | * | * | * | ✓ | ✓ | ✓ |

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A5E34104857-AE, V3.0, 06/2017