

SITOP power supply

SITOP UPS Manager

Getting Started

SITOP UPS1600
10A 6EP4134-3AB00-0AY0
6EP4134-3AB00-1AY0
6EP4134-3AB00-2AY0
SITOP UPS1600 20A
6EP4136-3AB00-0AY0
6EP4136-3AB00-1AY0
6EP4136-3AB00-2AY0
SITOP UPS1600 40A
6EP4137-3AB00-0AY0
6EP4137-3AB00-1AY0
6EP4137-3AB00-2AY0
SITOP UPS1100 battery module
1,2 Ah 6EP4131-0GB00-0AY0
Battery module 2,5 Ah
6EP4132-0GB00-0AY0
Batteri modul 3,2 Ah
6EP4133-0GB00-0AY0
Battery module 7 Ah
6EP4134-0GB00-0AY0
Battery module 12 Ah
6EP4135-0GB00-0AY0

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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

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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Introduction

1.1 Purpose of this document

This Getting Started guides you through using the UPS Management software SITOP UPS Manager . Step-by-step instructions explain the installation and the basic functions:

- Installing the SITOP UPS Managers with the previously downloaded setup file under Windows 7
- Basic functions of the SITOP UPS Managers
 - Buffering one or several PCs after a power failure
 - Running down the PCs in the network after a defined time

Basic knowledge required

The following are required to understand the Getting Started:

- Knowledgeable about using personal computers with the Windows operating system
- Knowledge regarding configuring an uninterruptible power supply based on the SITOP UPS1600 and connected battery modules

Range of validity

The Getting Started is applicable for SITOP UPS Manager V4.59 and higher.

1.2 Technical support

Technical support

Technical support for all IA/DT products can be accessed through the following communication channels:

- Phone: + 49 (0) 911 895 7222
- E-Mail (<mailto:support.automation@siemens.com>)
- Internet:
Online support request form (<http://www.siemens.de/automation/support-request>)

Technical documentation on the Internet

Operating instructions and manuals for SITOP are available in the Internet:
Operating instructions/manuals (<http://www.siemens.de/sitop/manuals>)

SITOP power supply homepage

General news about our power supplies is available in the Internet at the SITOP home page (<http://www.siemens.de/sitop>).

1.3 Additional documentation

Further information is available in the following documents:

- UPS1600 and UPS1100 manual

WARNING

Correct handling of the devices

When operating electrical devices, it is inevitable that certain components will carry dangerous voltages.

Therefore, failure to handle the units properly can result in death or serious physical injury as well as extensive property damage.

Only appropriately qualified personnel may work on or in the vicinity of this equipment.

Perfect, safe, and reliable operation of this equipment is dependent on proper transportation, storage, installation and mounting.

Before installation or maintenance work can begin, the system's main switch must be switched off and measures taken to prevent it being switched on again.

If this instruction is not observed, touching live parts can result in death or serious injury.

The relevant DIN/VDE regulations or country-specific specifications (e.g. VDE 0510 Part 2 / EN50272-2) must be observed for the storage, assembly and operation of the lead accumulators. It must be ensured that the battery location is suitably ventilated. Potential ignition sources must be separated by at least 50 cm.

Note

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates.

For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action (e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Any third-party products that may be in use must also be taken into account. You will find more information about industrial security at (<http://www.siemens.com/industrialsecurity>).

To stay informed about product updates as they occur, sign up for a product-specific newsletter. You will find additional information on this at (<http://support.automation.siemens.com>).

Description

3.1 System overview

Application

The principle tasks that you can perform with the SITOP UPS Manager are as follows:

- Configuration of the SITOP UPS1600 uninterruptible power supply and the battery modules,
- Protection of a computer or a computer network provided by the uninterruptible power supply with the master-slave operation
- Data backup by controlled shutdown, and
- Alarm-controlled starting of any applications (SMS, e-mail).

With the specification of further applications and alarms, you define a comprehensive protection of your computer or computer network.

The applications can be started depending on the following events:

- Power failure
- Restoration of the power supply
- State of the buffer readiness by the UPS:
 - General buffer readiness
 - Remaining buffer time
- State of the UPS battery:
 - Battery replacement required
 - Battery charge

Device integration

The SITOP UPS Manager supports the following devices:

- UPS1600 from firmware release V2.0.X
The UPS1600 is supported in the versions with USB and Ethernet connection.
- UPS1100
All versions of the UPS1100 battery modules are supported.

Languages

German, English.

French, Italian, Spanish and Chinese being prepared.

Installing the SITOP UPS Manager

The installation file for SITOP UPS Manager is available at no charge on the SITOP homepage (<http://www.siemens.com/sitop>) or directly under (<http://support.automation.siemens.com/WW/view/en/75854607>).

Operational requirements

Operating systems

The Windows XP and Windows 7 (32 bit and 64 bit) operating systems are supported.

Ethernet or USB interface

To install and use SITOP UPS Manager in conjunction with UPS1600, the computer must be connected with the UPS1600 via Ethernet or USB interface.

Windows user group

Users of SITOP UPS Manager must be members of the "Power users" Windows user group.

Installation preconditions

Administration rights

The installation of the SITOP UPS Manager requires administration rights.

Installation paths without spaces

Note

Paths must not contain any spaces!

It is not permissible that the path name of the target directory, in which you install SITOP UPS Manager, has any spaces.

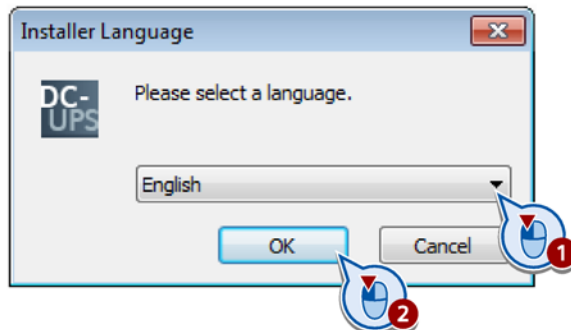
Installation

1. Close all applications before you start the installation.
2. Download the installation file under (<http://support.automation.siemens.com/WW/view/en/75854607>) and save it in a local directory.
3. Open the local directory.

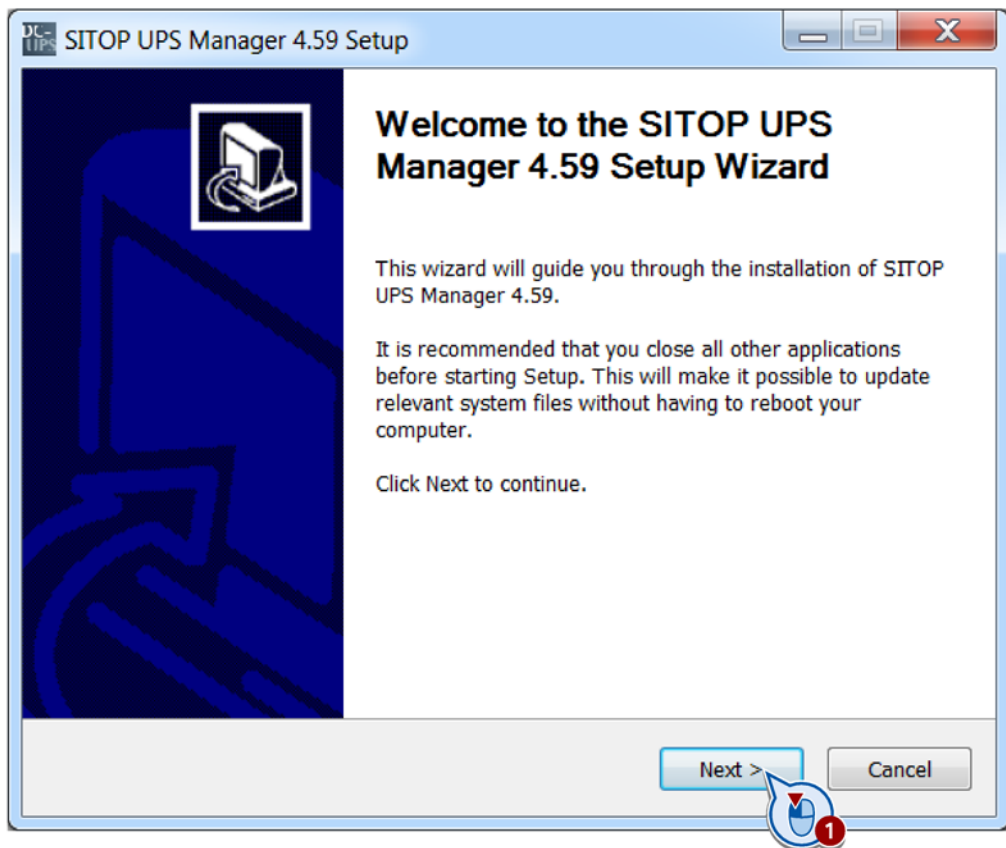
4. Double-click on the "SetupSITOPUPSManager_" file.



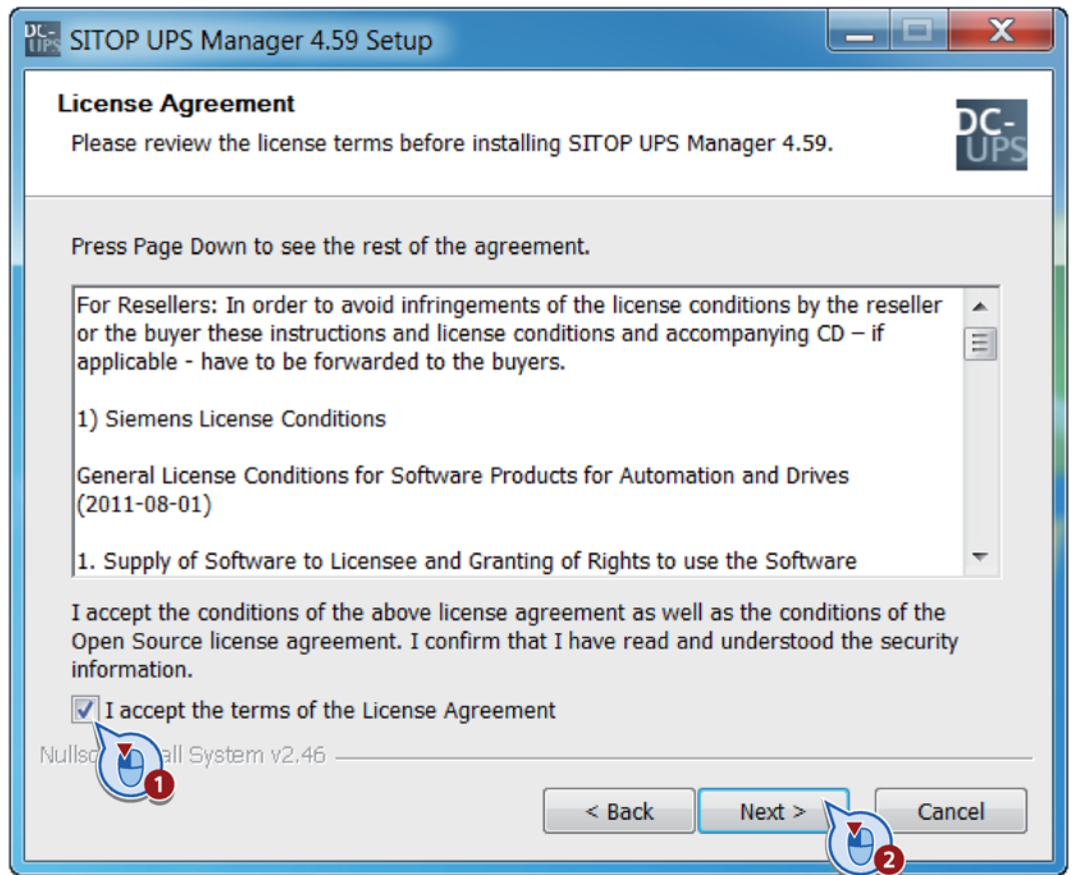
5. Select an installation language.



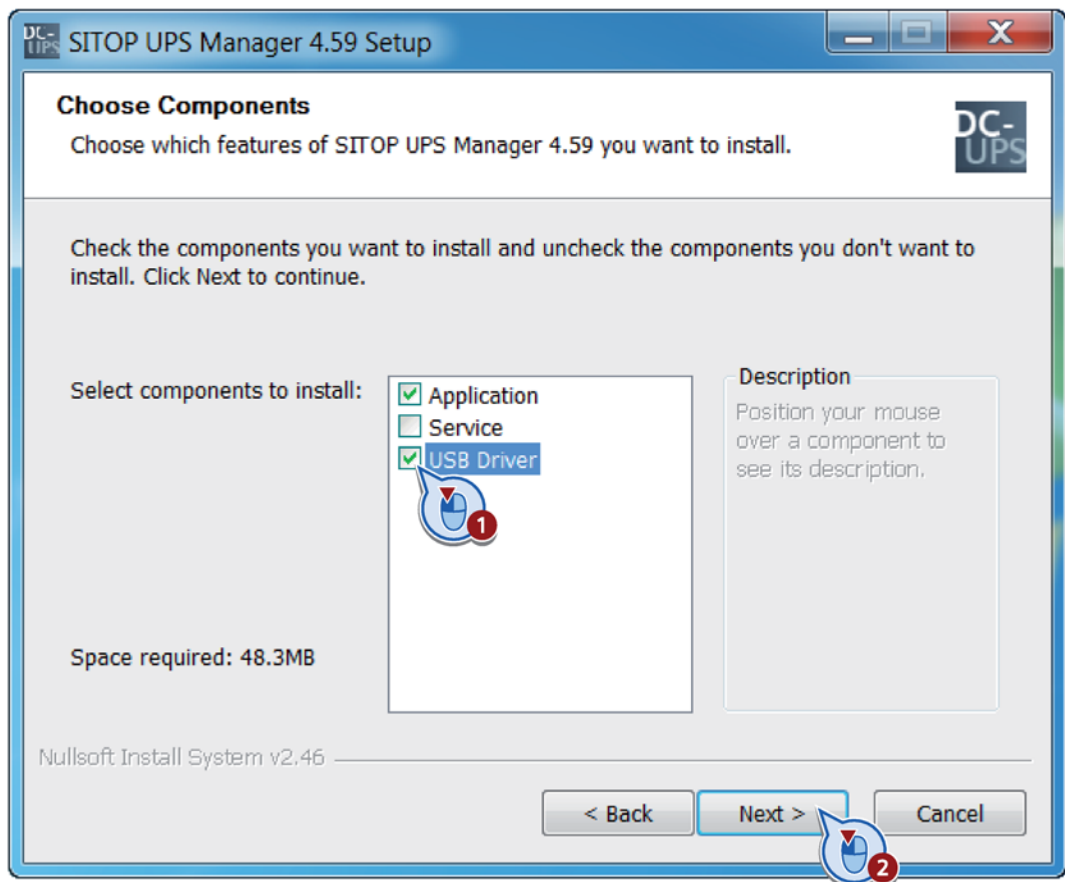
6. Confirm the welcome screen of the wizard.



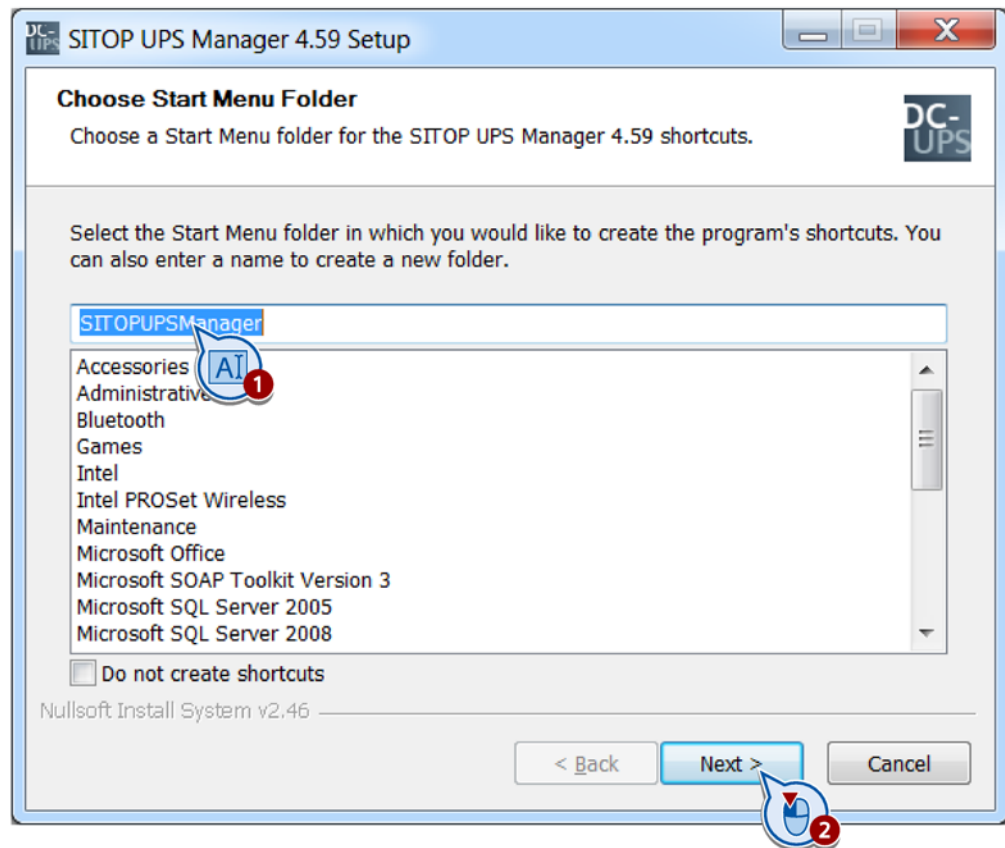
7. Accept the license agreement by activating the checkbox "I accept the terms of the License Agreement".



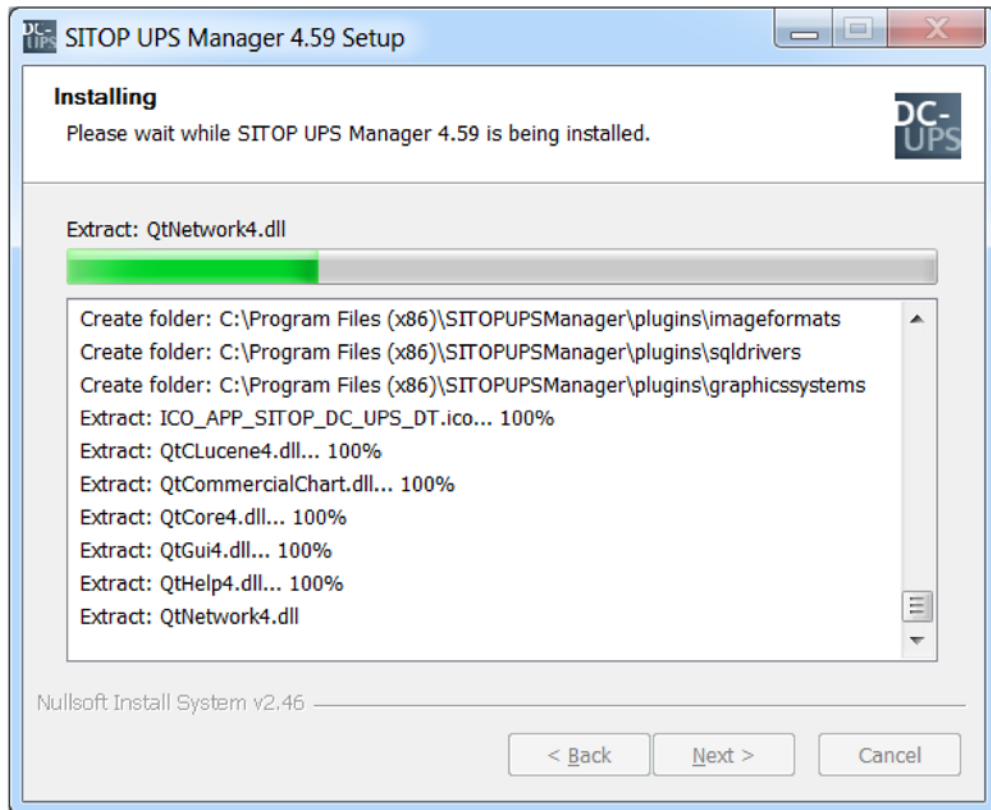
8. Select the scope of the installation.
We recommend that the driver for the USB interface is also installed.



9. Select a directory in the file system in which the SITOP UPS Manager should be installed.

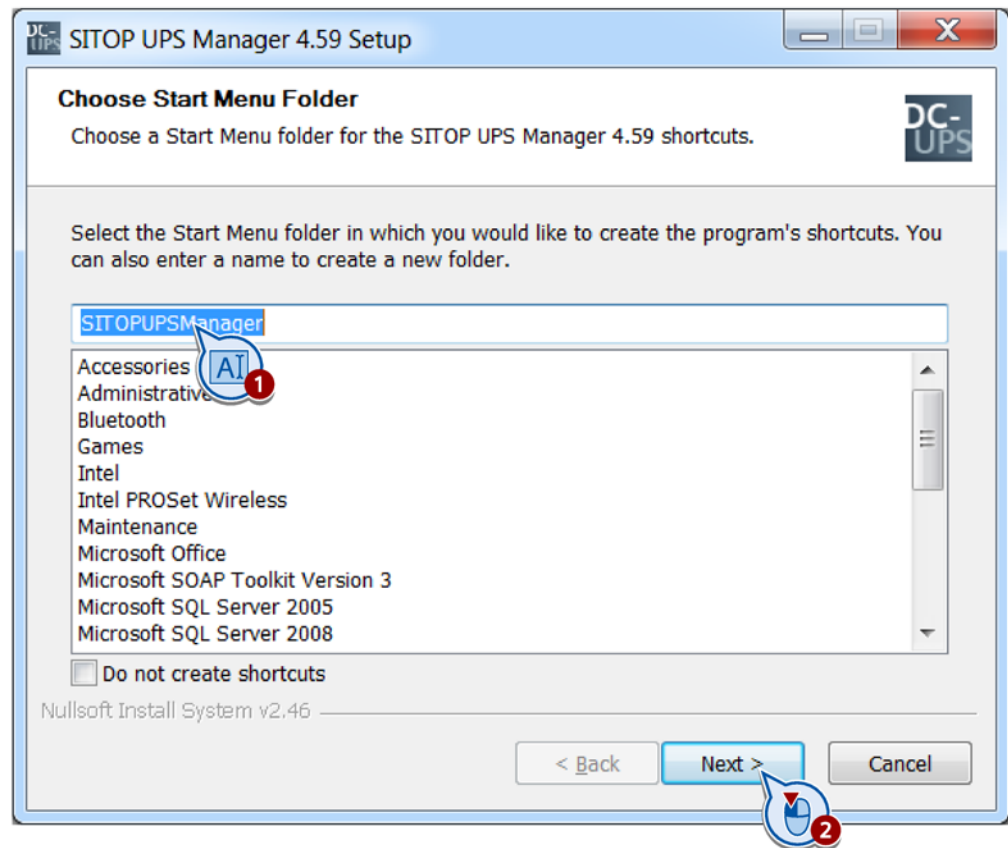


The SITOP UPS Manager is installed.



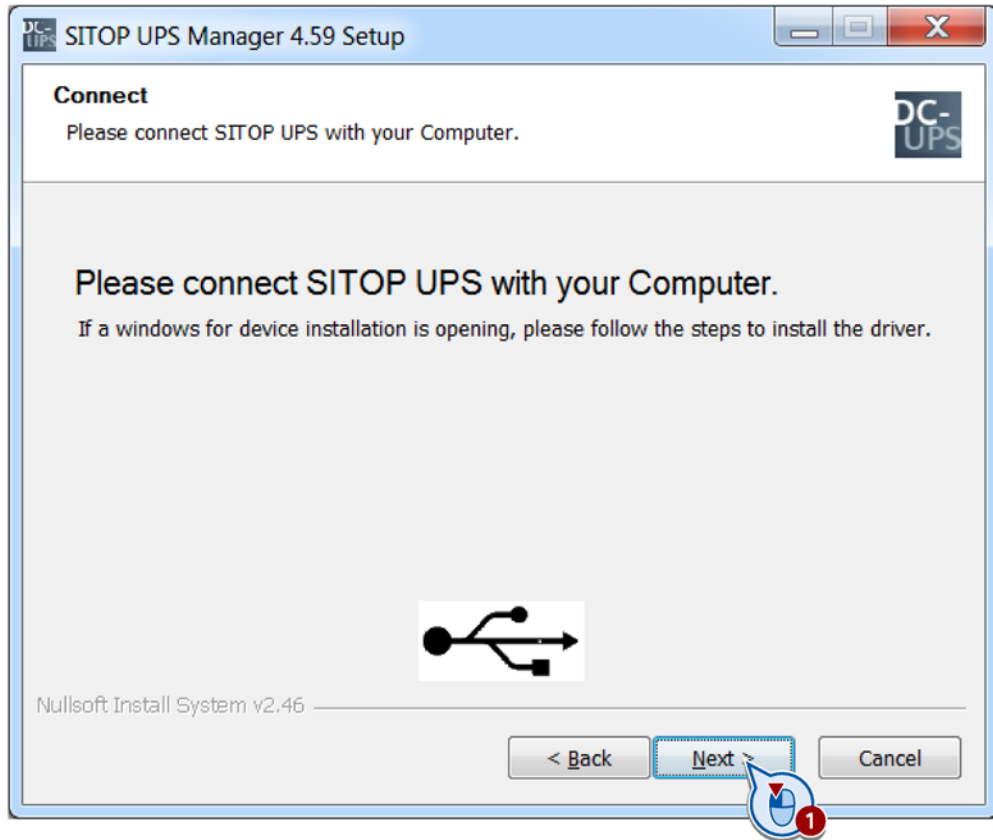
10. Select a start menu folder.

You can find the SITOP UPS Manager in the start menu under this start menu folder.

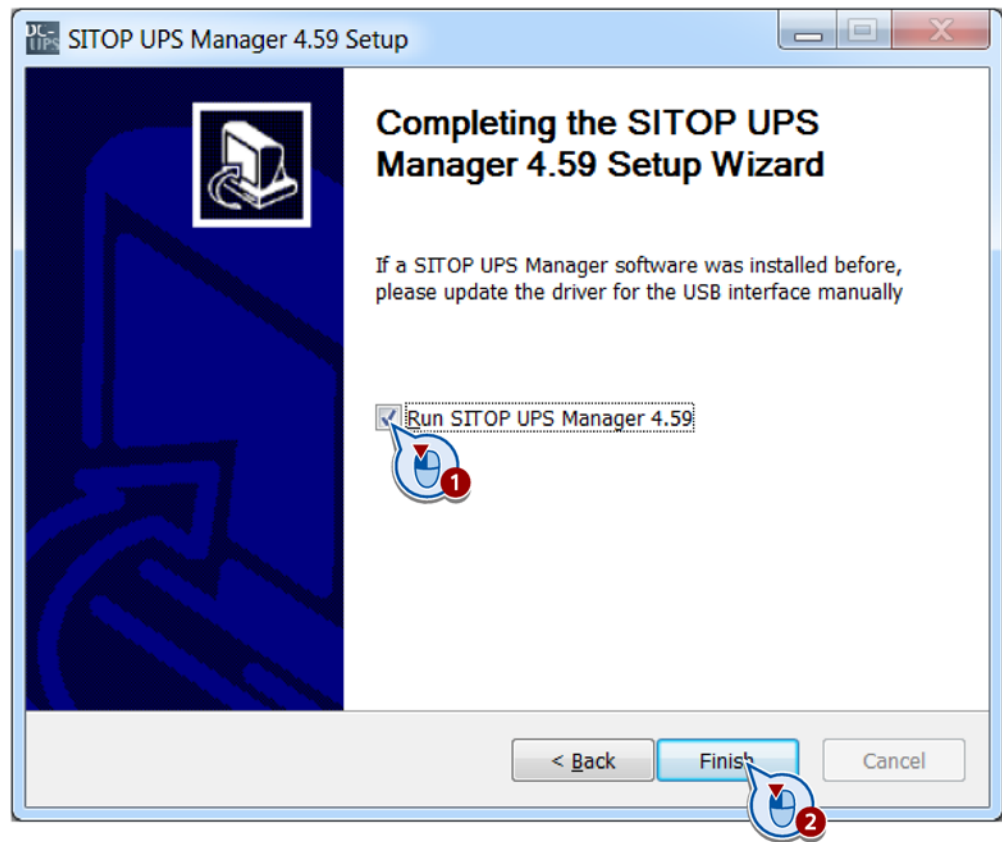


11. You will be prompted to connect the UPS1600 to your computer.

This option is used to establish a connection via the USB interface. If, as described in this Getting started, you wish to establish a connection via the Ethernet interface, then skip this point by simply clicking on "Next".



12. Select the option checkbox "Run SITOP UPS Manager" and click on "Finish".
The SITOP UPS Manager is started.



The installation has been completed.

Configuring the SITOP UPS1600 for the first time in the Ethernet

5

Just like all devices connected to PROFINET, SITOP UPS1600 requires an IP address. This is defined by the person responsible for the system. In this Getting Started, configuring the SITOP UPS1600 interface is described using the Primary Setup Tool.

General information

The Primary Setup Tool is a Siemens product that is free of charge and which is used to identify and configure network-conform devices. You can obtain the Primary Setup Tool at ().

Note

Additional information

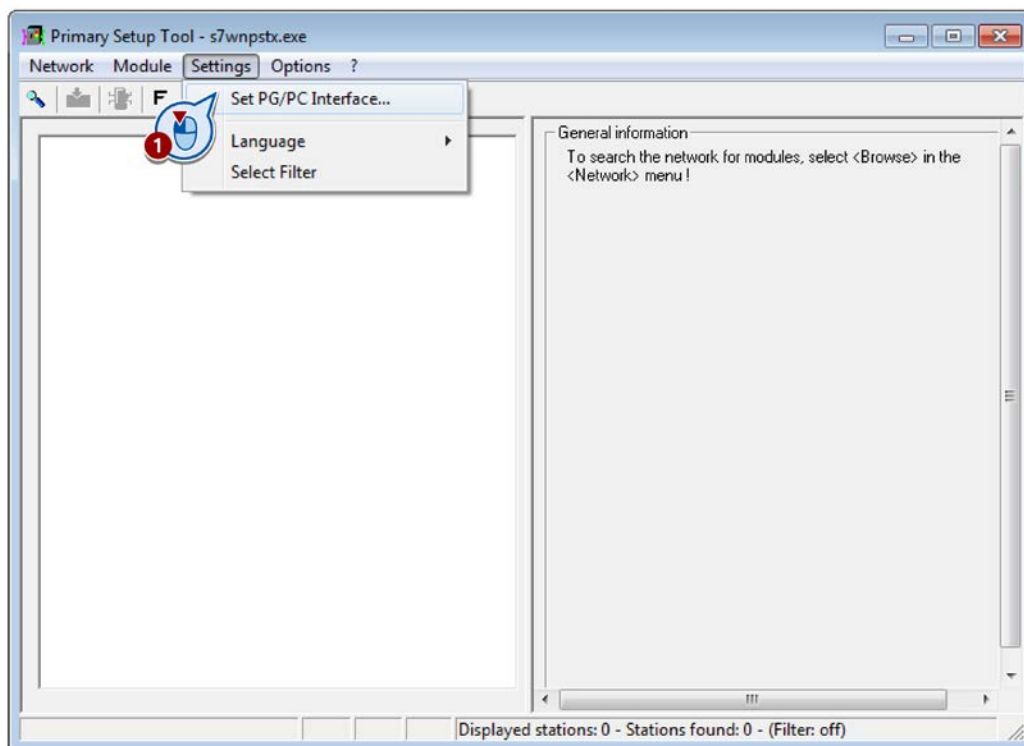
You can find additional information in the "Primary Setup Tools" Manual. This manual and further links can be found under ().

Preconditions

- The SITOP UPS1600 is connected with the local computer (PG/PC) via the Ethernet interface.
- The Primary Setup Tool is installed on the local computer.

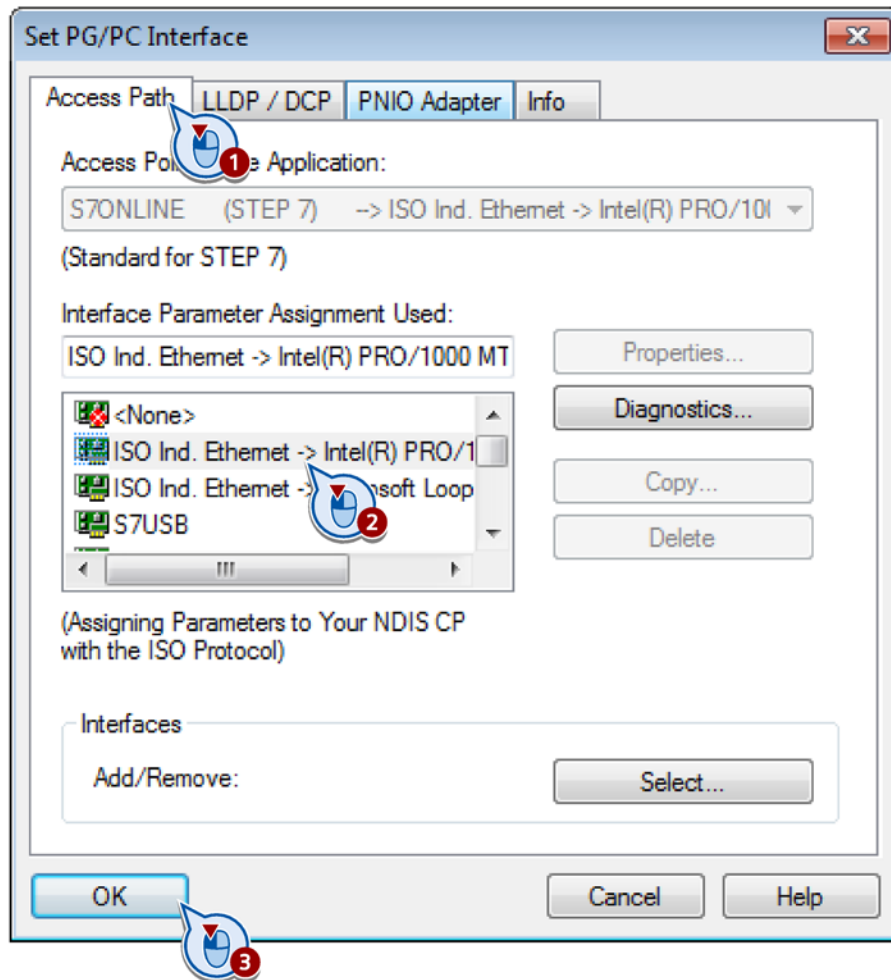
Procedure

1. Call the Primary Setup Tool .
2. In the Primary Setup Tool , select menu command "Settings > Set PG/PC interface...".

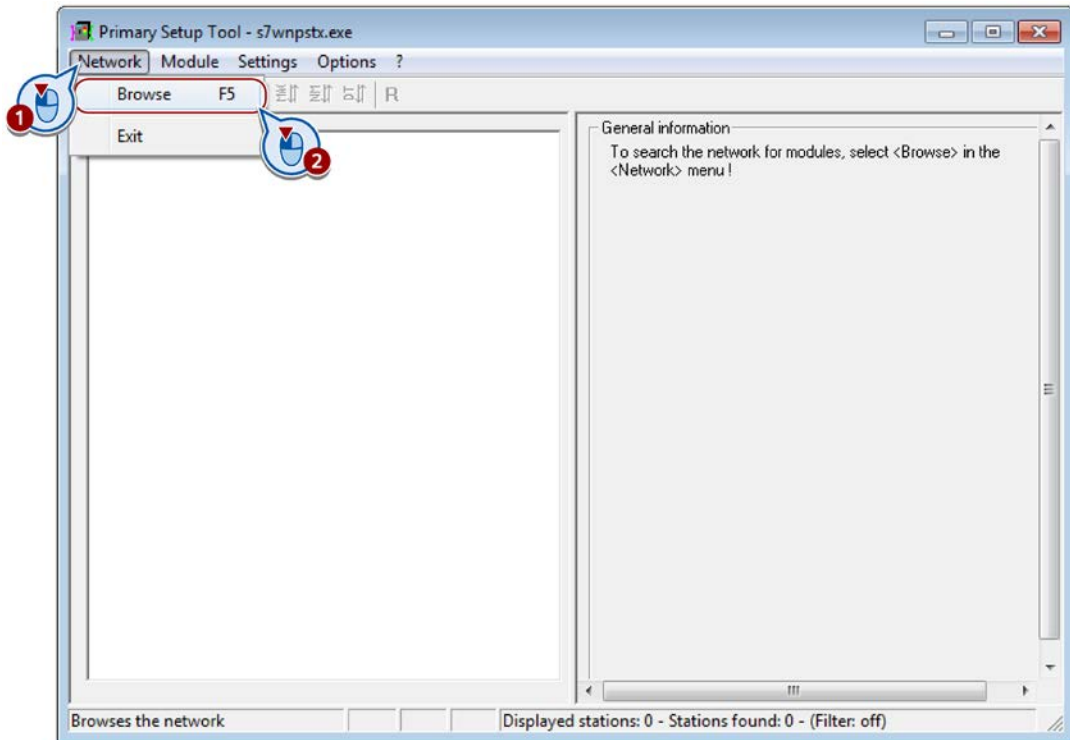


3. In the dialog box "Set PG/PC interface" select the "Access path" tab.

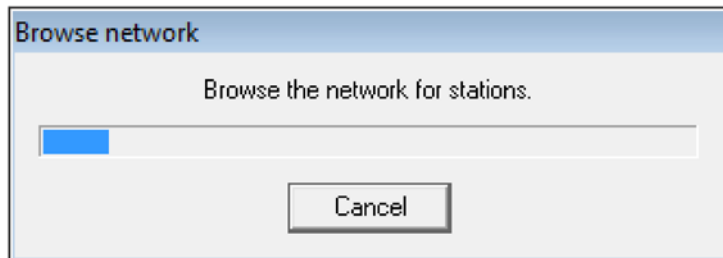
4. From the interfaces listed, select the Ethernet interface with which SITOP UPS1600 is connected, and confirm with "OK".



5. Select the menu command "Network > Browse", to view the network stations connected at the interface.

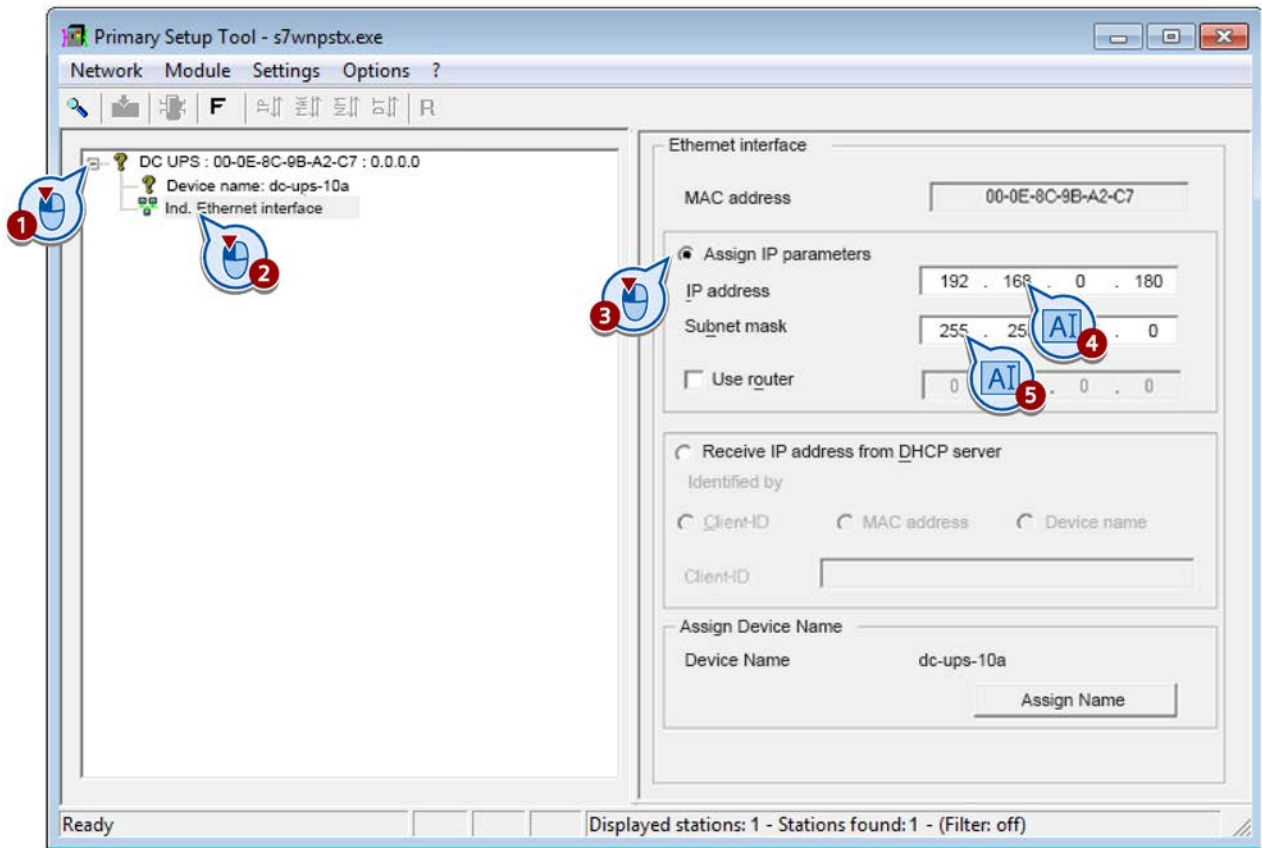


The "Browse network" window shows the progress of the search



6. From the search results, select the SITOP UPS1600 .
The SITOP UPS1600 is displayed as "DC-UPS:" with its MAC address and IP address.
7. Open the menu of the SITOP UPS1600 in the tree view, and select "Incl. Ethernet interface".
8. Select the "Assign IP parameters" checkbox.

9. Specify the IP address and subnet mask.
If required, select the checkbox "Use router" and enter the IP address of the router.

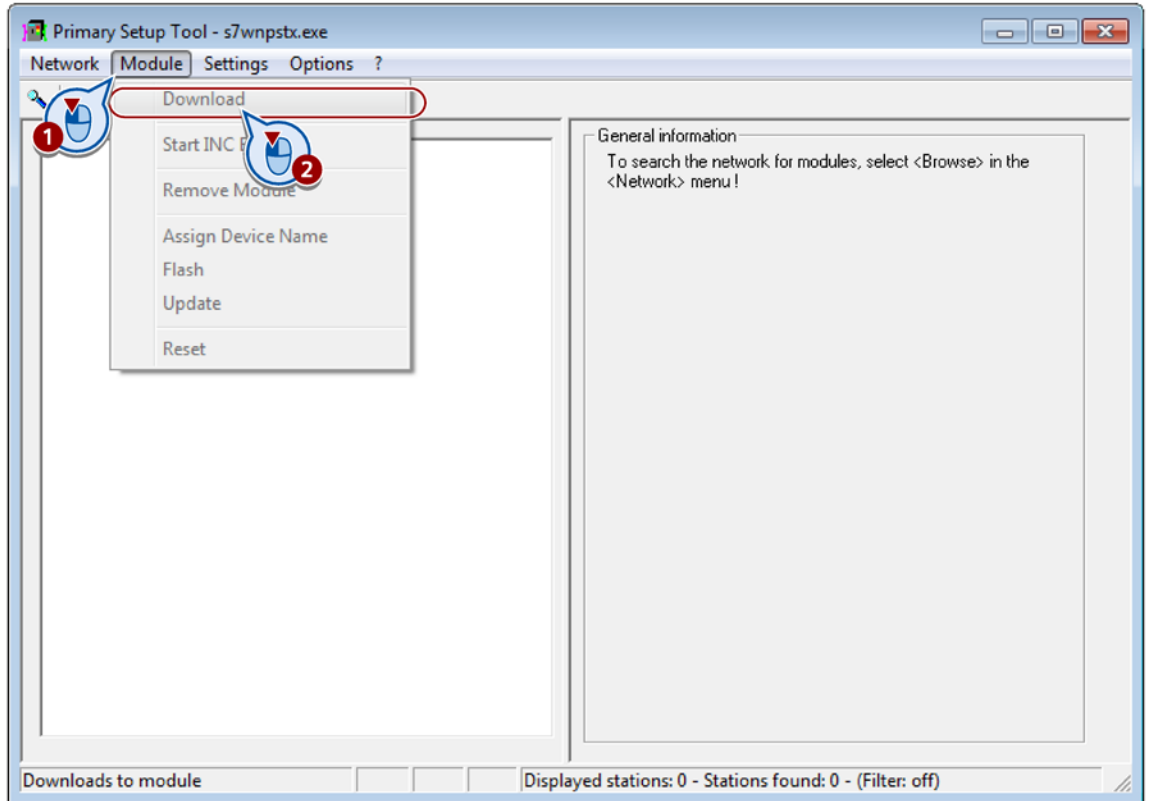


10. Select the SITOP UPS1600 in the tree view.

The configuration can only be loaded to the device if the SITOP UPS1600 has been selected at the upper level.



11. In the Primary Setup Tool, select the menu command "Module > Download", to load the configuration to the SITOP UPS1600 .



You have assigned an IP address to the SITOP UPS1600 and now you can communicate with the SITOP UPS1600 .

Parameterizing the SITOP UPS1600

The following examples will show you how to parameterize the uninterruptible SITOP UPS1600 power supply:

- Buffer a PC when the power fails and safely run it down
- Buffer several PCs when the power fails and safely run them down

Please refer to the UPS1600 Manual when parameterizing the uninterruptible SITOP UPS1600 power supply for other tasks.

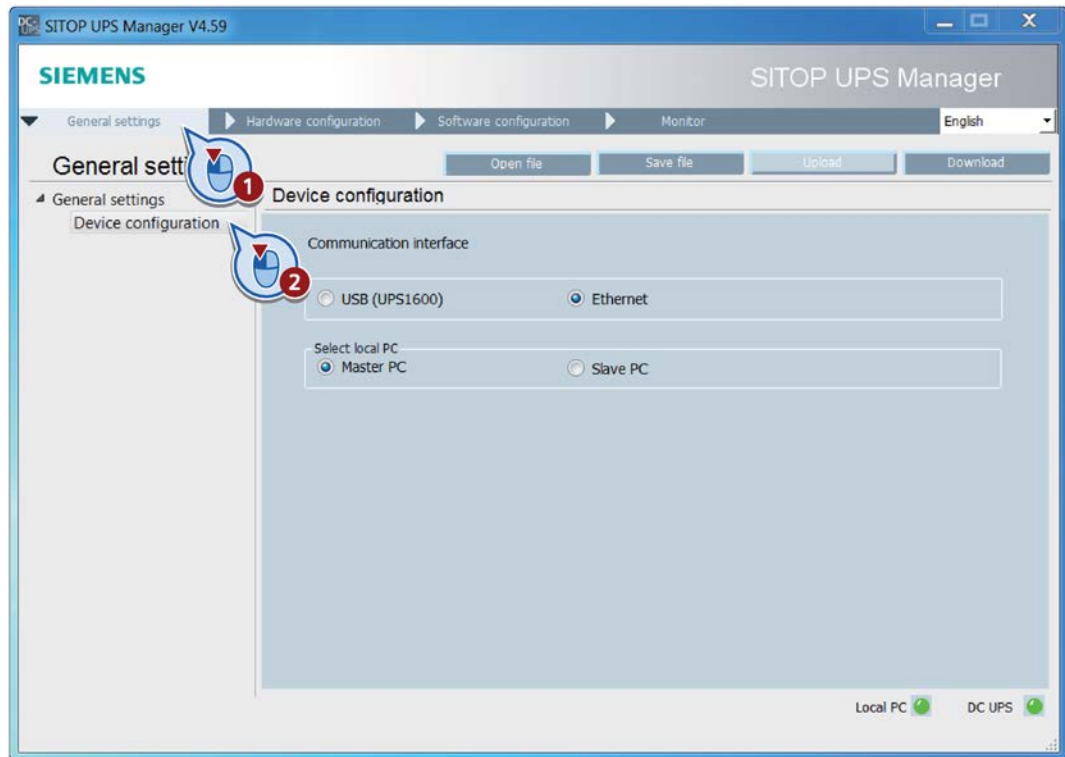
6.1 Buffer a PC when the power fails and safely run it down

Preconditions

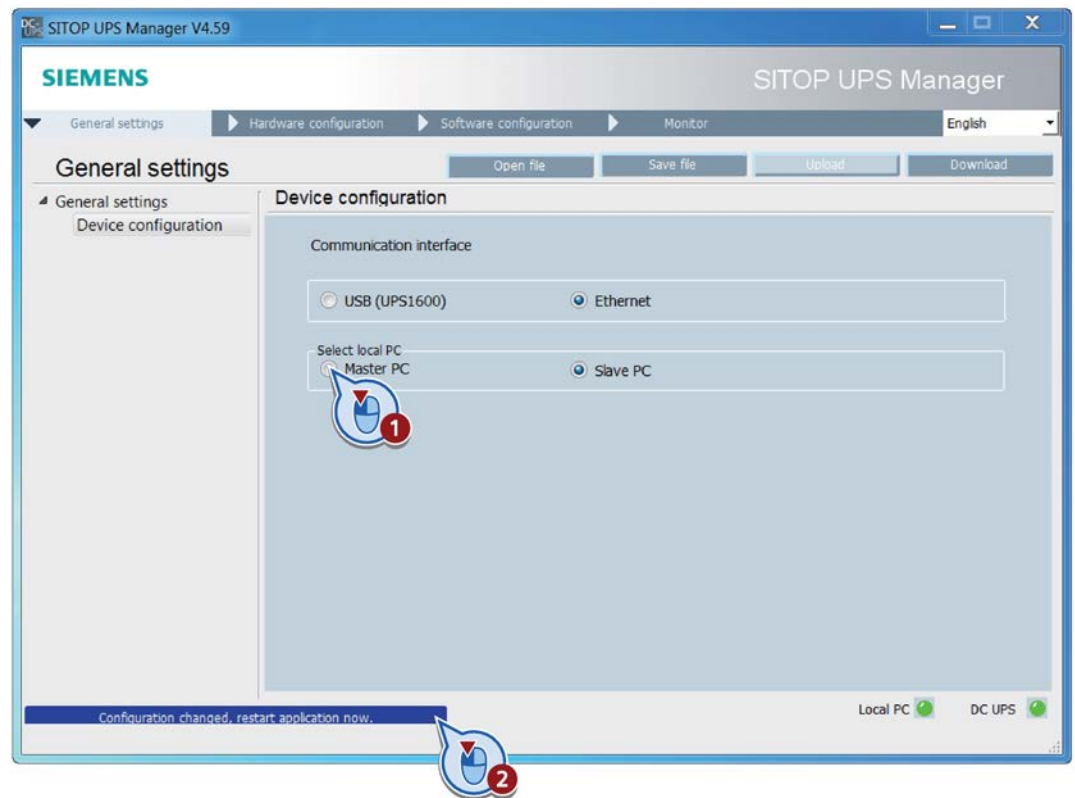
- The SITOP UPS Manager is installed on the local computer (PC, PG).
- The UPS1600 is connected with the local computer via the Ethernet interface or the USB interface and is configured.
- The current firmware (as a minimum, release V2.0.x) has been downloaded to the UPS1600.

Buffering a PC when the power fails

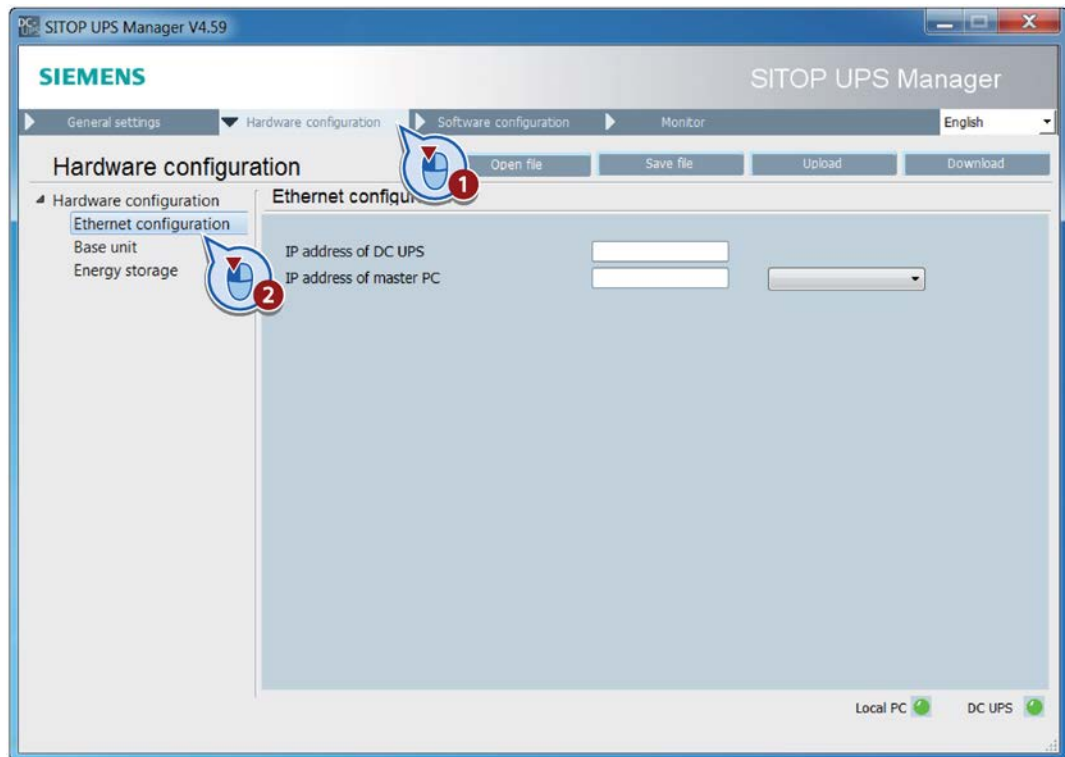
1. Call the SITOP UPS Manager .
2. In the SITOP UPS Manager , select "General settings > Device configuration" and check whether the local PC is selected as master PC.



If necessary, select "Master PC" and restart the program (application) by clicking on "Configuration changed, restart application now".



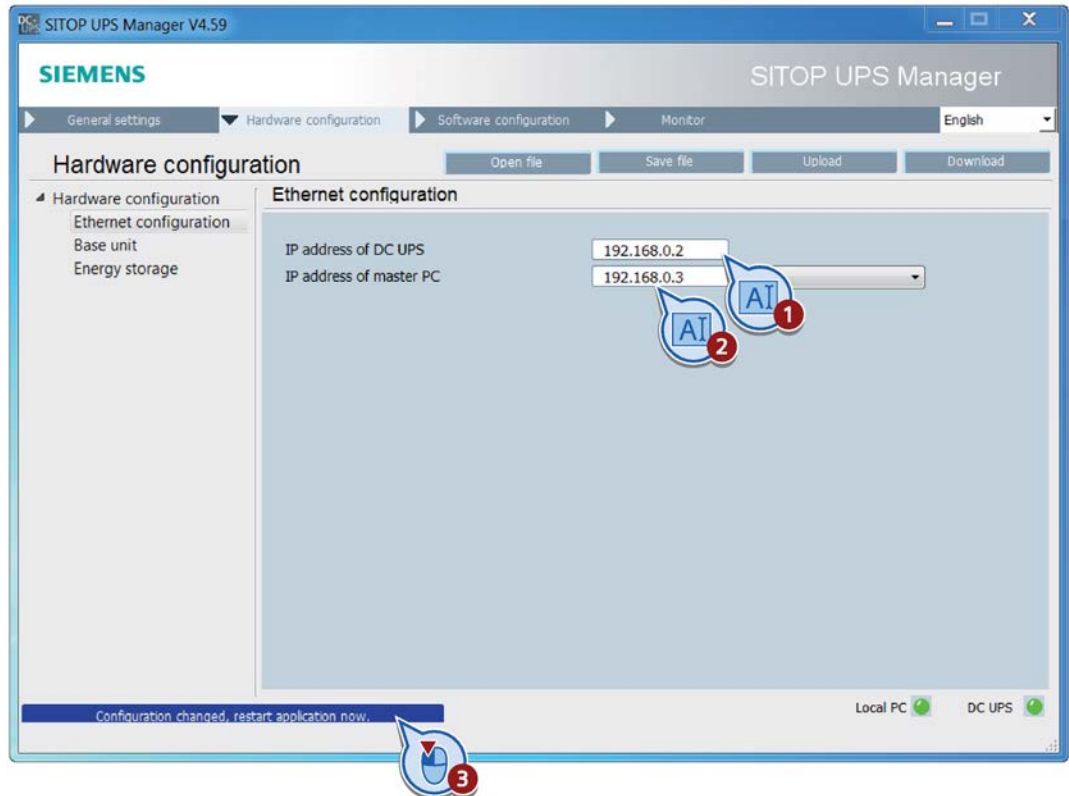
3. Select "Hardware configuration > Ethernet configuration".



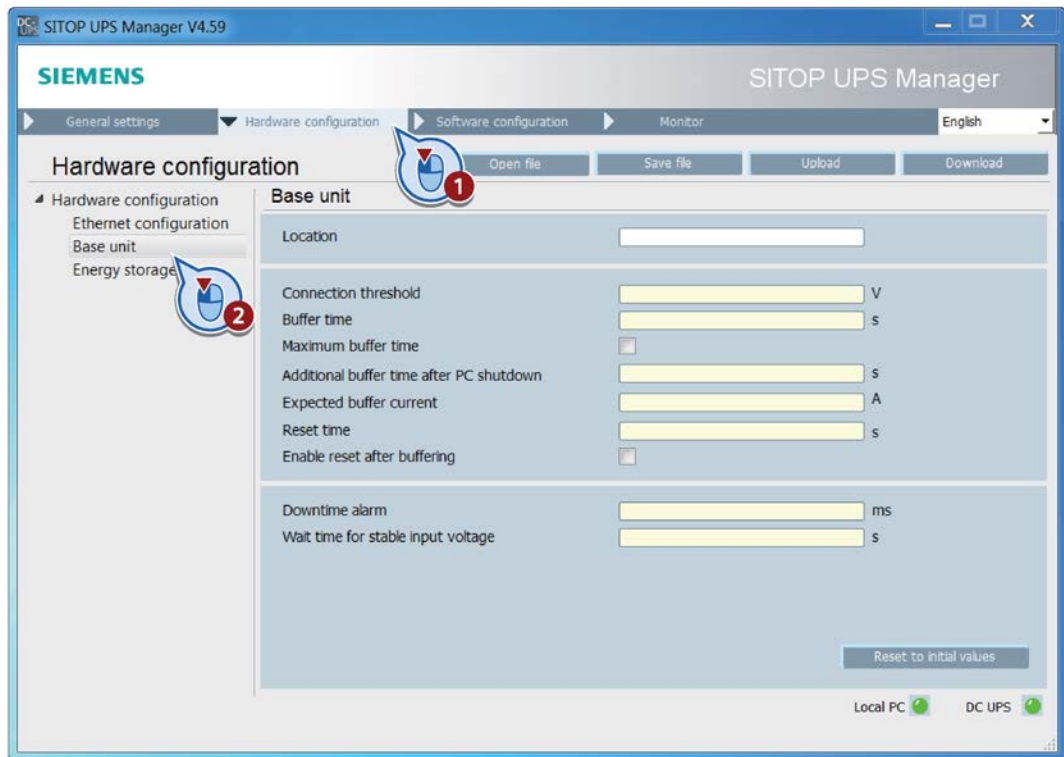
4. Enter the IP address of the UPS1600 in the "IP address of the DC-UPS" field.
5. Enter the IP address of the master PC in field "IP address of master PC" and restart the program (application) by clicking on "Configuration changed, restart application now".

Note

The IP address of the master PC must also be specified at the master PC in the SITOP UPS Manager .



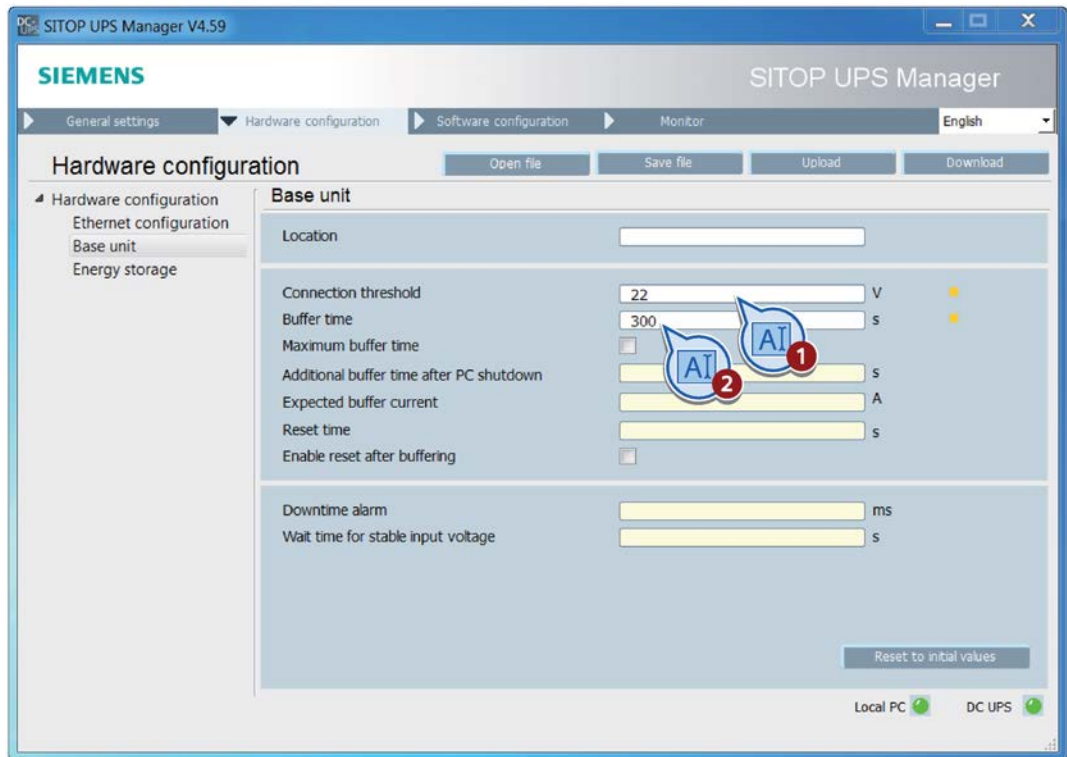
6. In the SITOP UPS Manager ", select Hardware configuration > Base unit".



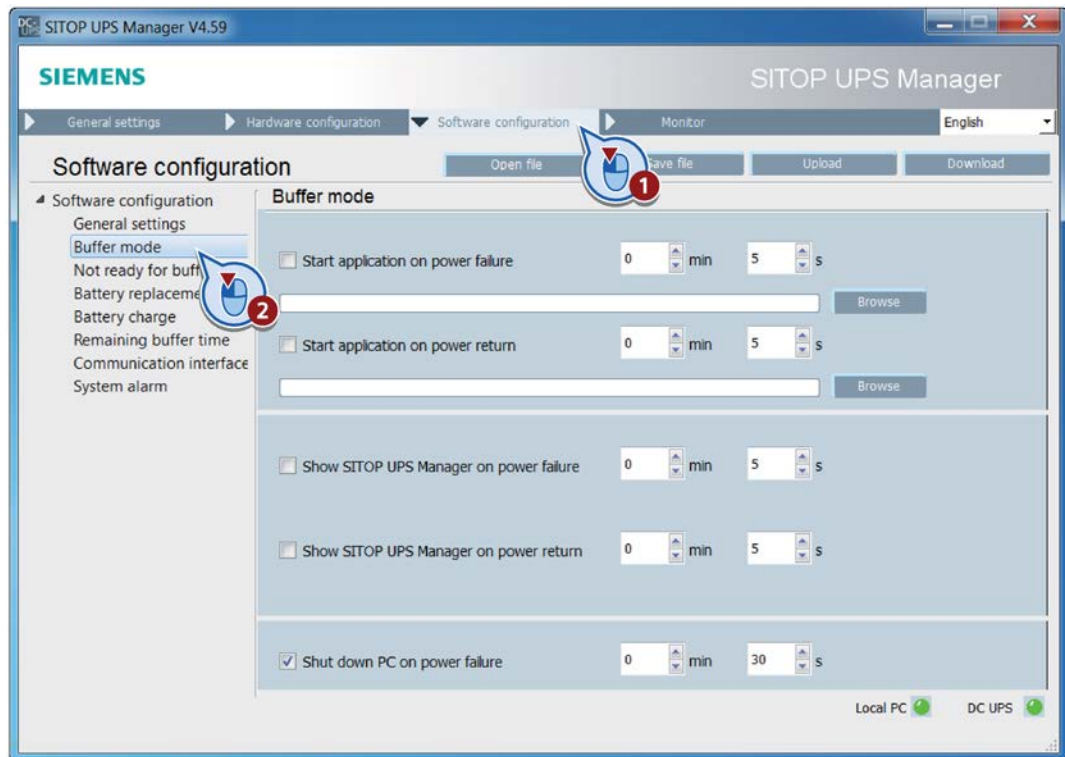
Note

If you keep the mouse pointer over the entry field for approximately 2 seconds, then the entry area for this field is displayed under the mouse pointer.

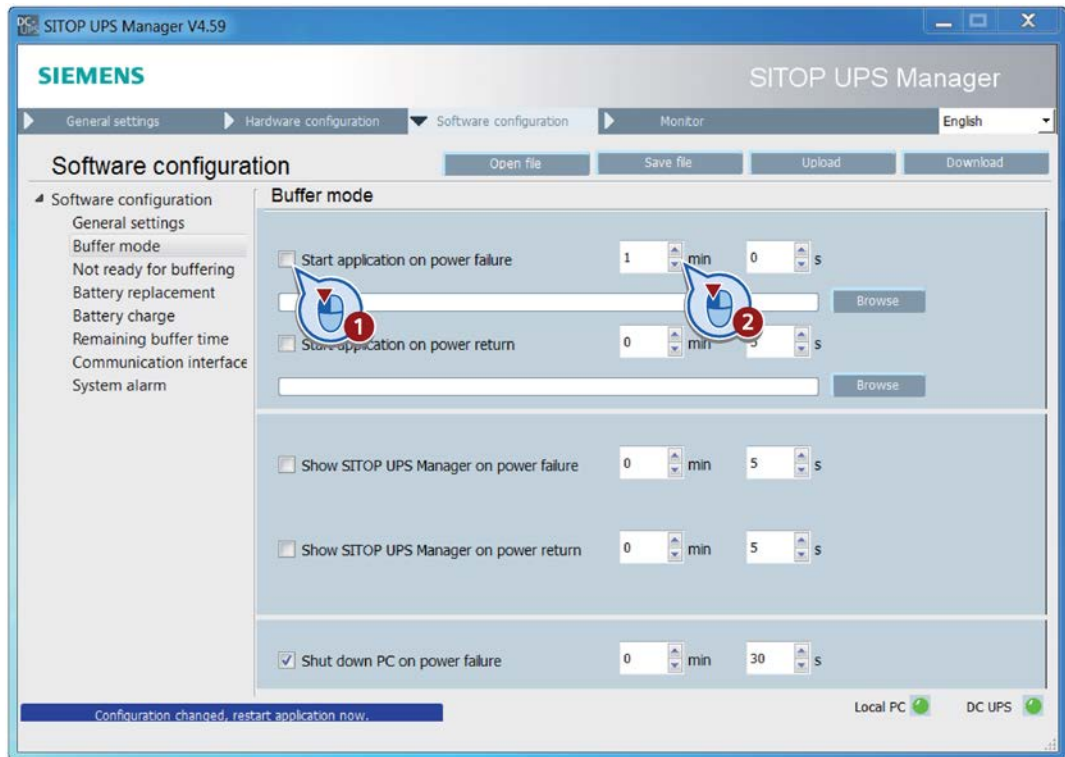
7. Enter the required connection threshold when the UPS1600 should start buffering.
8. Under "Buffer time", specify the time that UPS1600 should buffer.



9. In the SITOP UPS Manager ", select Software configuration > Buffer mode".



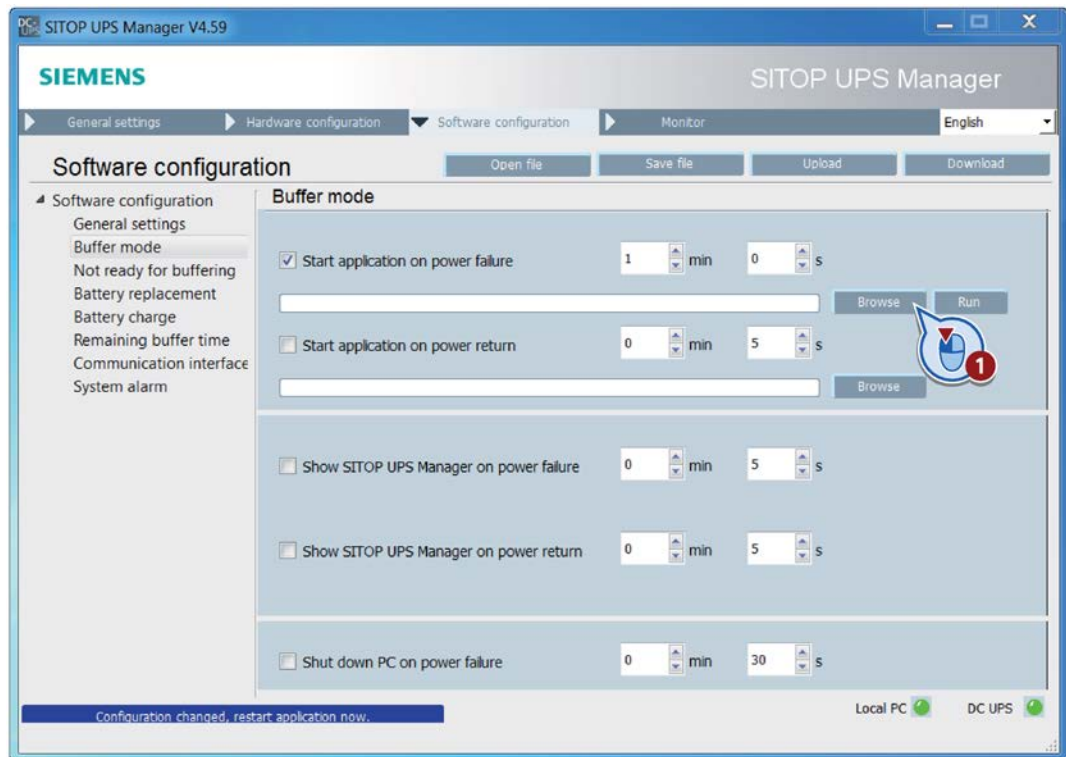
10. If tasks must be executed on the PC before running down (saving data etc.), select the checkbox "Start application on power failure" and enter the time after which the application should start.
Select this time so that the PC has completely run down before the entered buffer time has expired (see above).



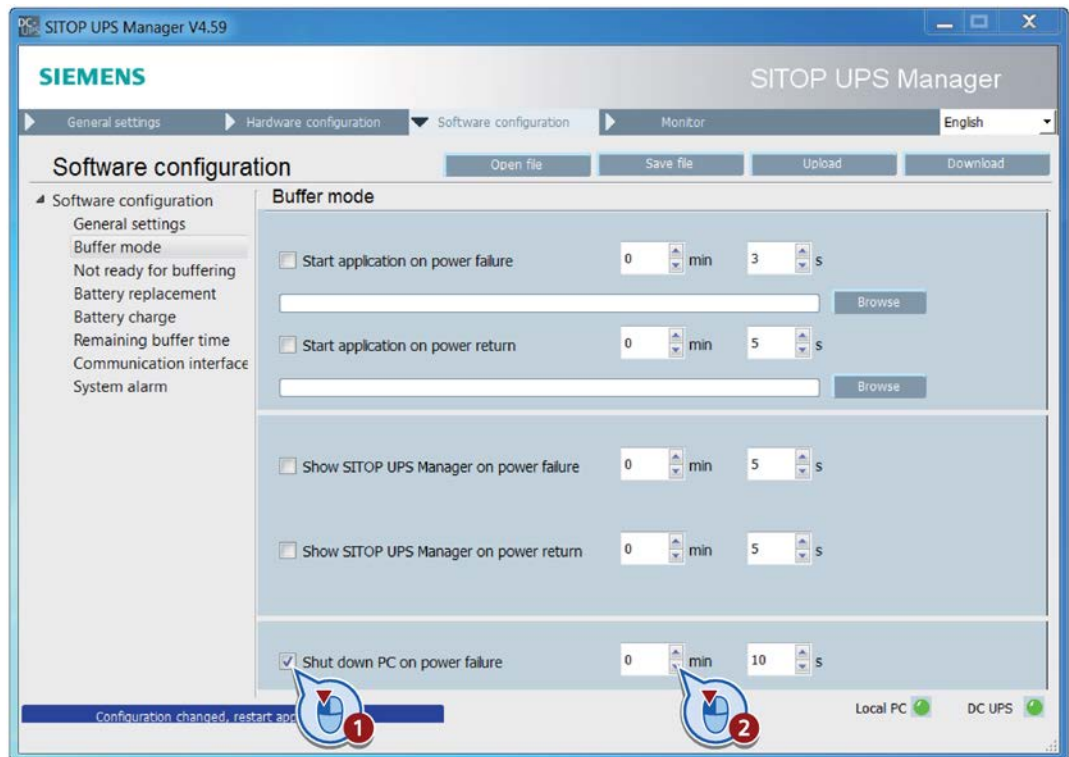
6.1 Buffer a PC when the power fails and safely run it down

Click on "Browse" and select the batch file that you created with the commands to be executed.

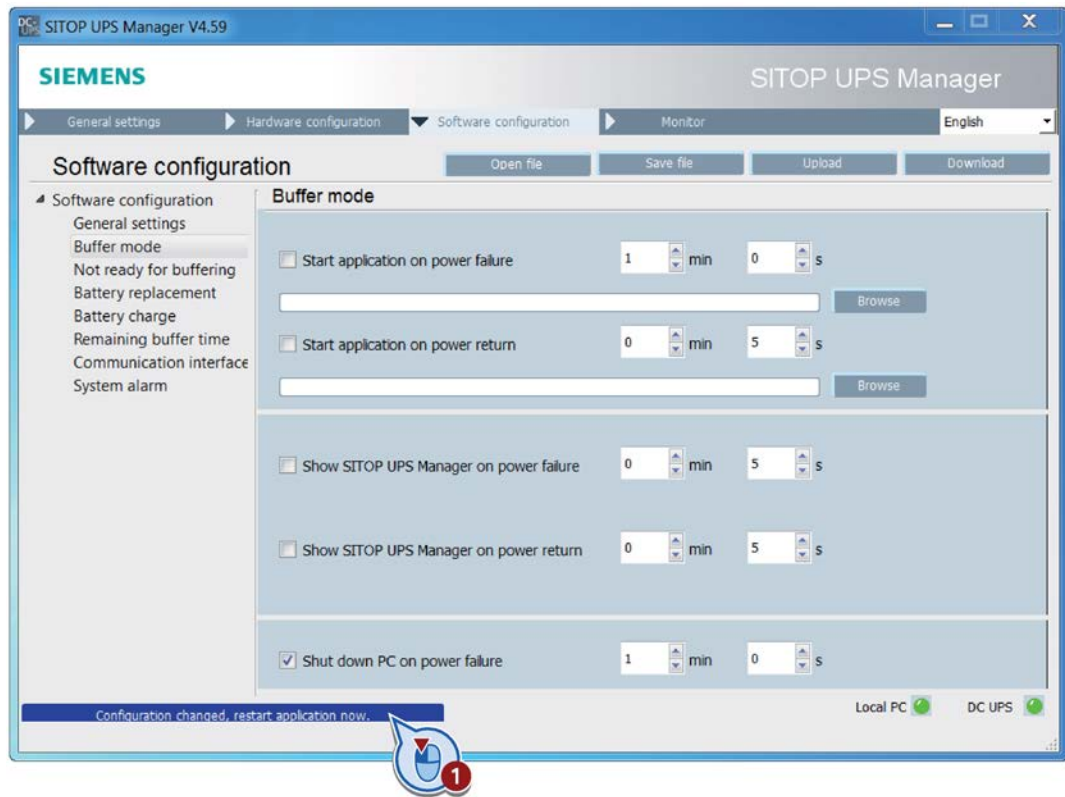
Restart the program and download the parameters to the device (see Points 9. and 10. below).



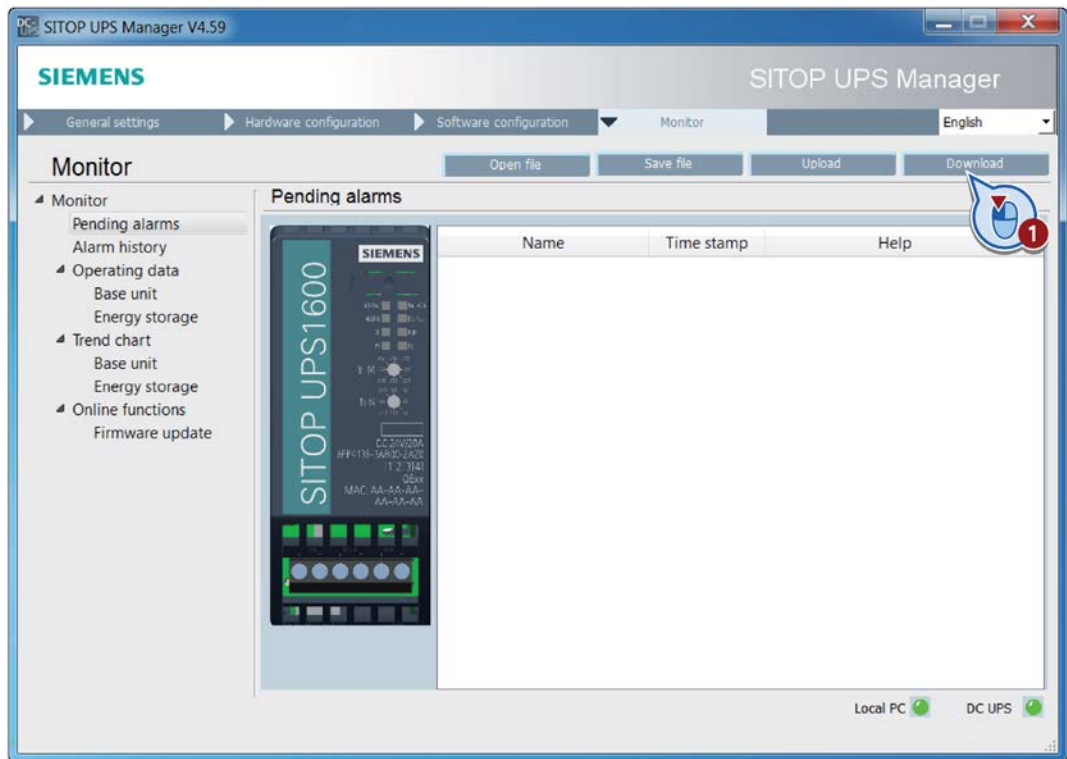
11. If no tasks have to be executed before the PC runs down, select checkbox "Shut down PC on power failure" and enter the wait time.



12. Restart the SITOP UPS Manager by clicking on "Configuration changed, restart application now".



13. To load the parameters that have been entered into the UPS1600, after the program restarts, click on "Download".



You have parameterized the UPS1600 to buffer a PC when the power fails as well as to reliably run down during buffering.

6.2 Buffer several PCs when the power fails and safely run them down

If several PCs in the buffer mode are to be run down, then these must be configured as master PC and slave PC for the SITOP UPS1600.

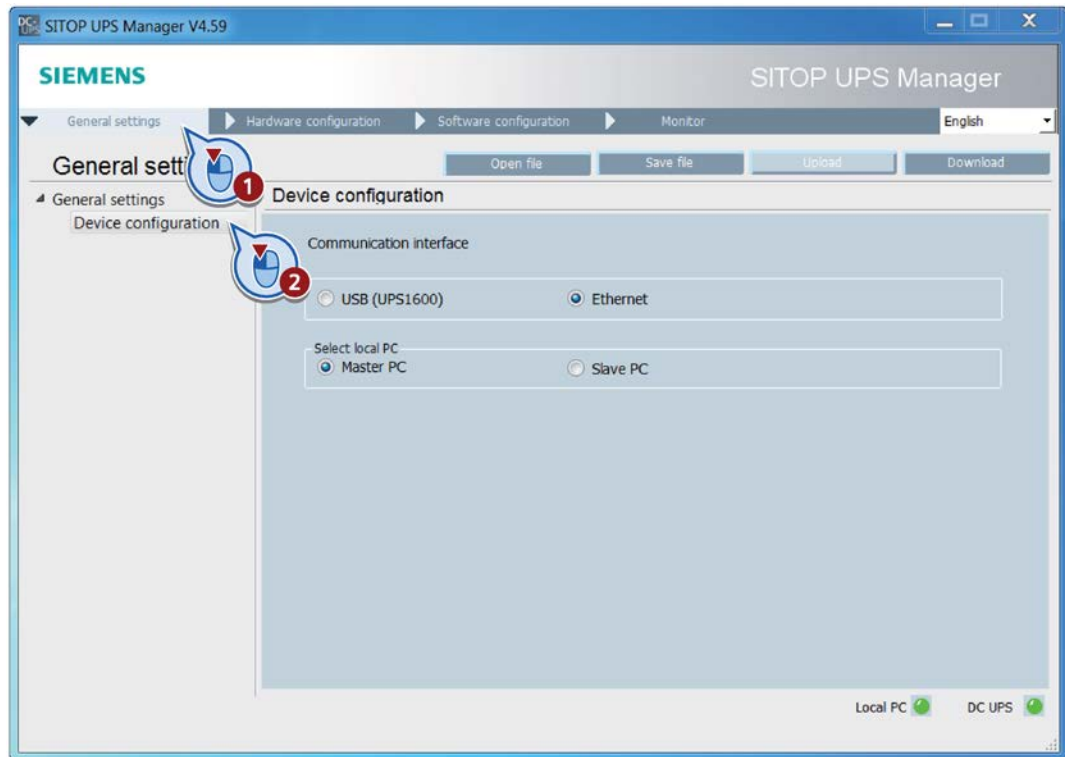
The UPS1600, the master PC and the slave PC are on the same physical Ethernet in the master-slave configuration. Only the master PC communicates directly with the UPS1600. The slave PC receives the control signals from the SITOP UPS Manager of the master PC.

Preconditions

- Master PC, slave PC and the SITOP UPS1600 are all in the same physical Ethernet.
- The SITOP UPS Manager is installed on the local computer (PC, PG).
- The current firmware (as a minimum, release V2.0.x) has been downloaded to the UPS1600.

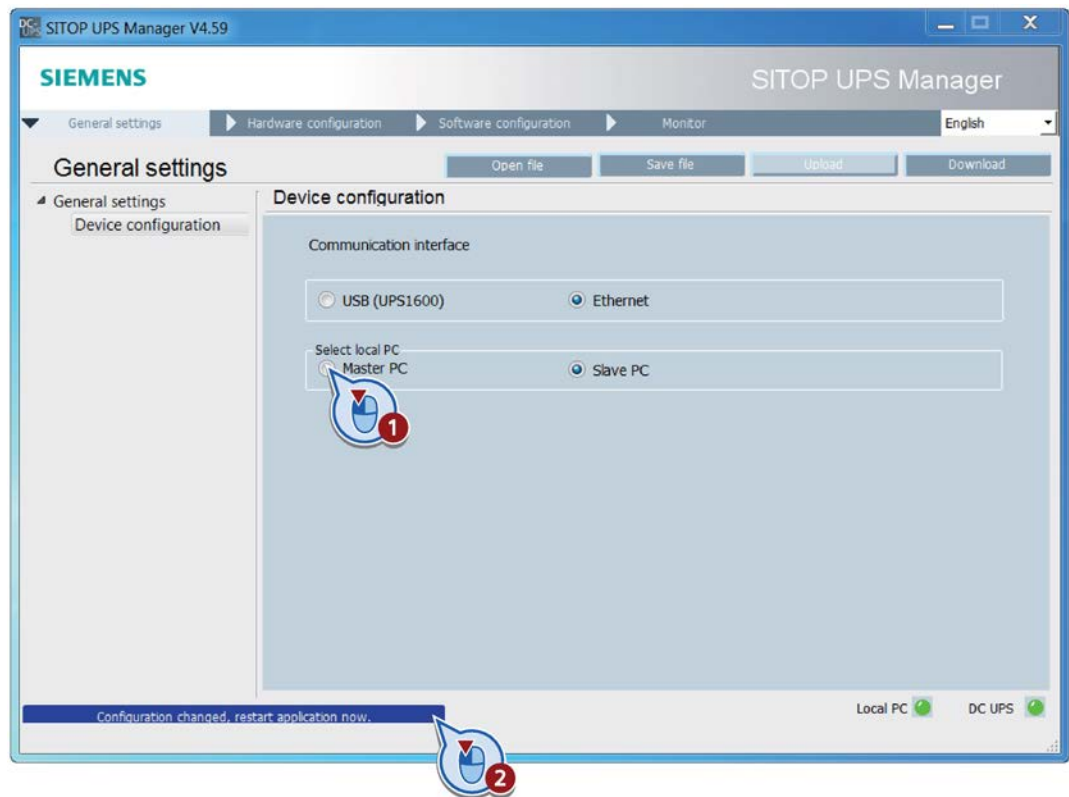
Configuring the local computer as master PC

1. Call the SITOP UPS Manager on the master PC.
2. In the SITOP UPS Manager , select "General settings > Device configuration" and check whether the local PC is selected as master PC.

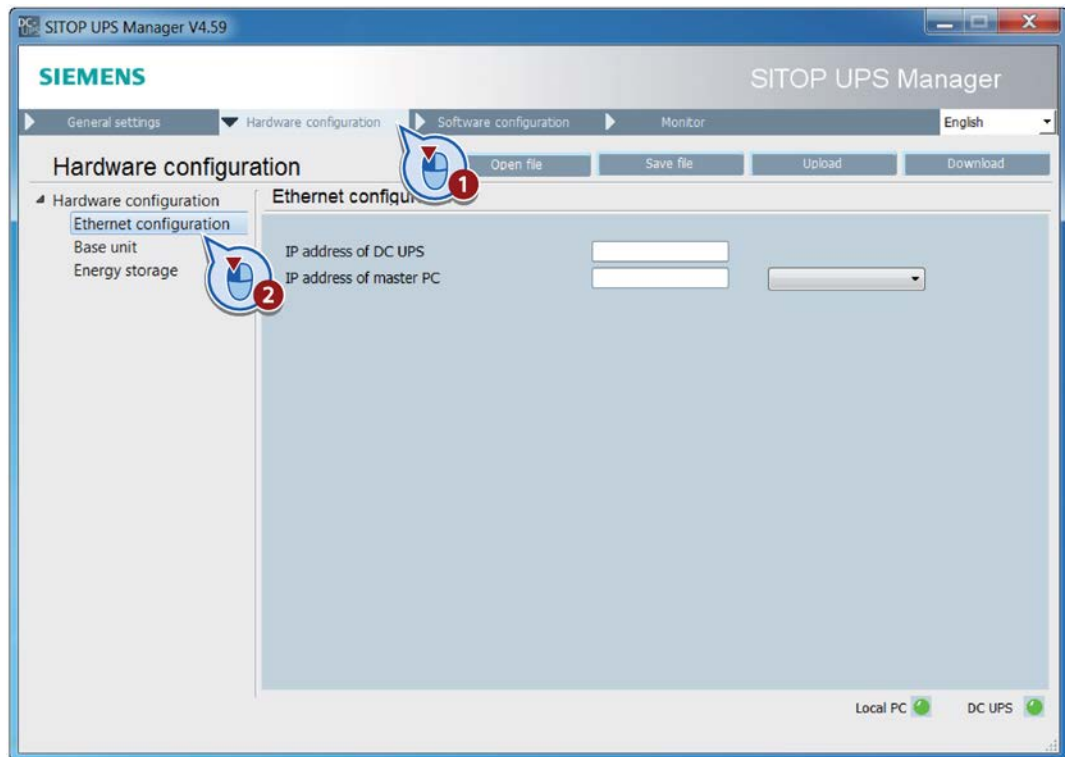


6.2 Buffer several PCs when the power fails and safely run them down

If necessary, select "Master PC" and restart the program (application) by clicking on "Configuration changed, restart application now".



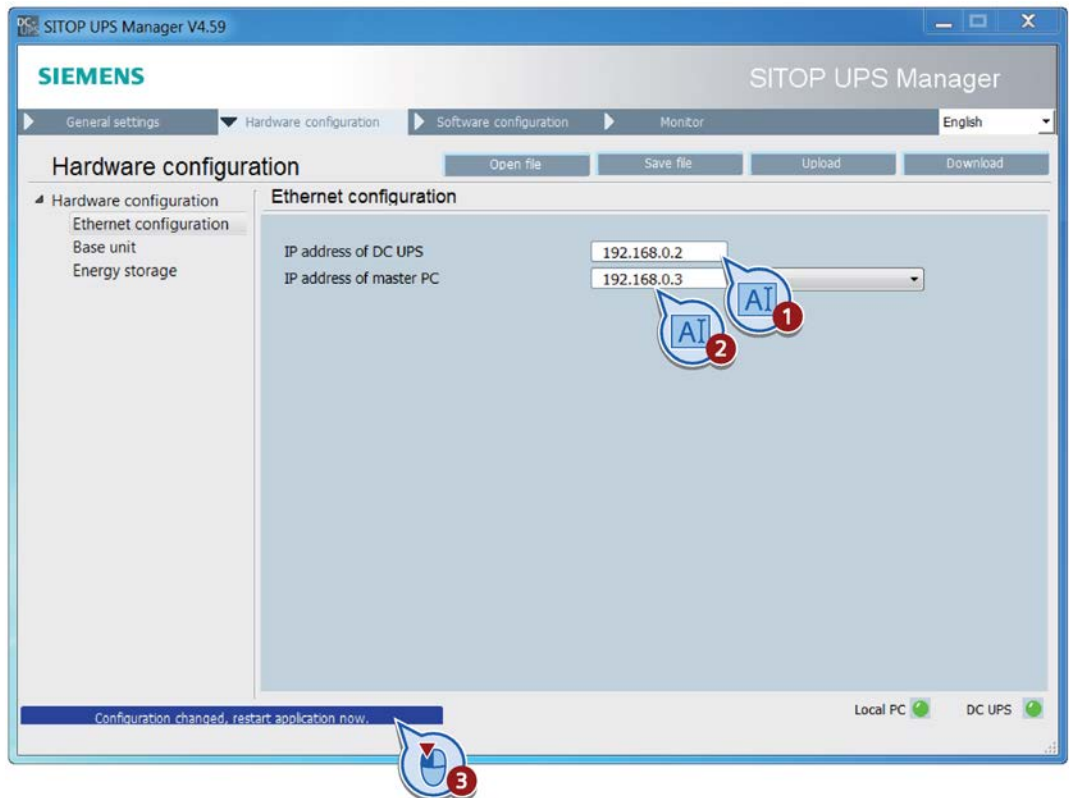
3. Select "Hardware configuration > Ethernet configuration".



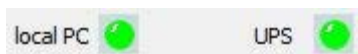
4. Enter the IP address of the UPS1600 in the "IP address of the DC-UPS" field.
5. Enter the IP address of the master PC in field "IP address of master PC" and restart the program (application) by clicking on "Configuration changed, restart application now".

Note

The IP address of the master PC must also be specified at the master PC in the SITOP UPS Manager .

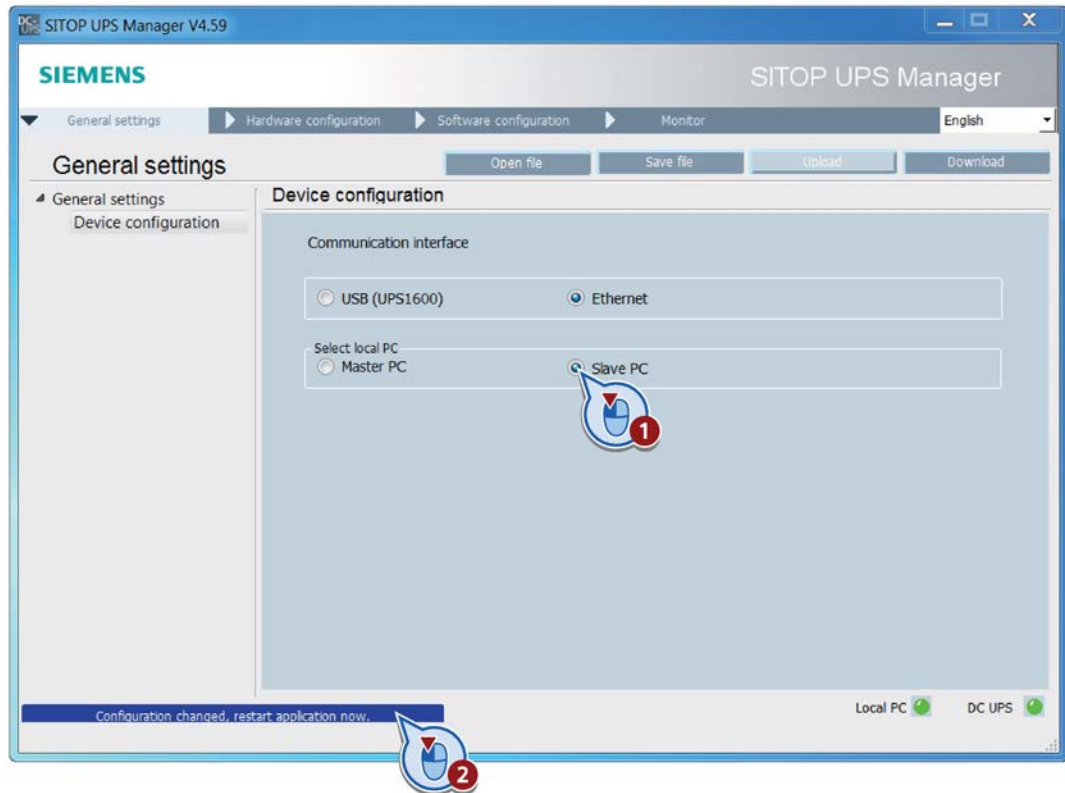


The connection lamps light green; the connection as master PC to the UPS1600 has been established.

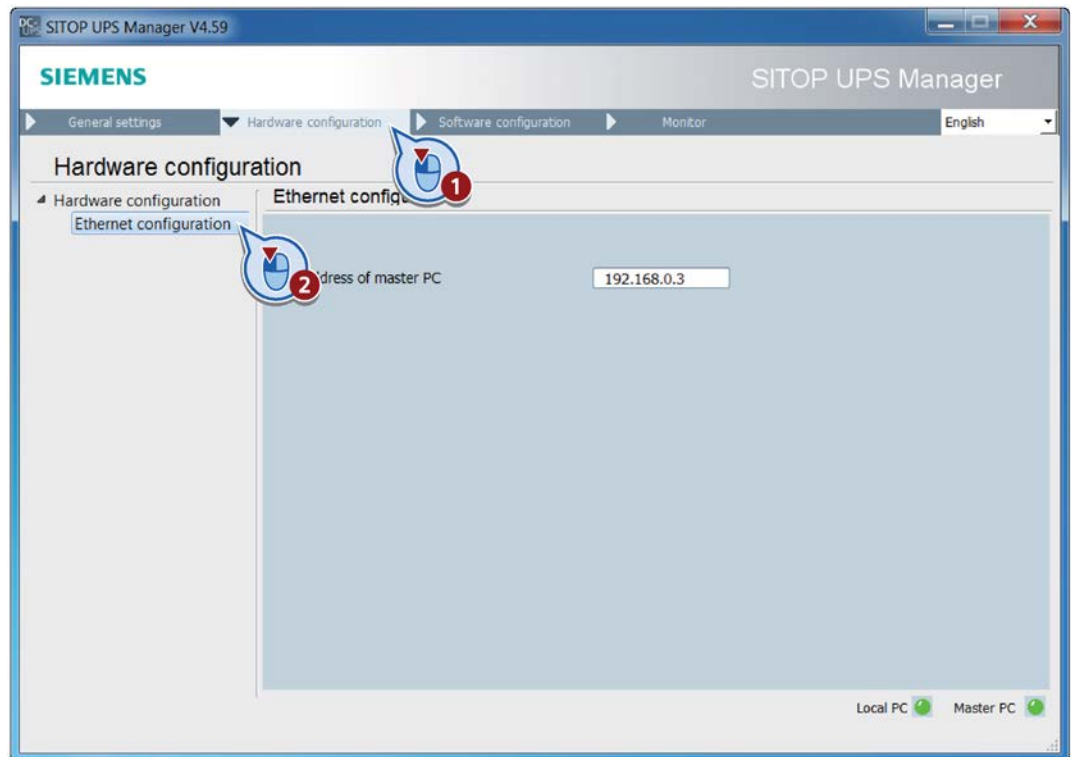


Configuring the local computer as slave PC

1. Call the SITOP UPS Manager on the slave PC.
2. In the SITOP UPS Manager, select "General settings > Device configuration", set the selection of the local PC to "Slave PC" and restart the program (application) by clicking on "Configuration changed, restart application now".

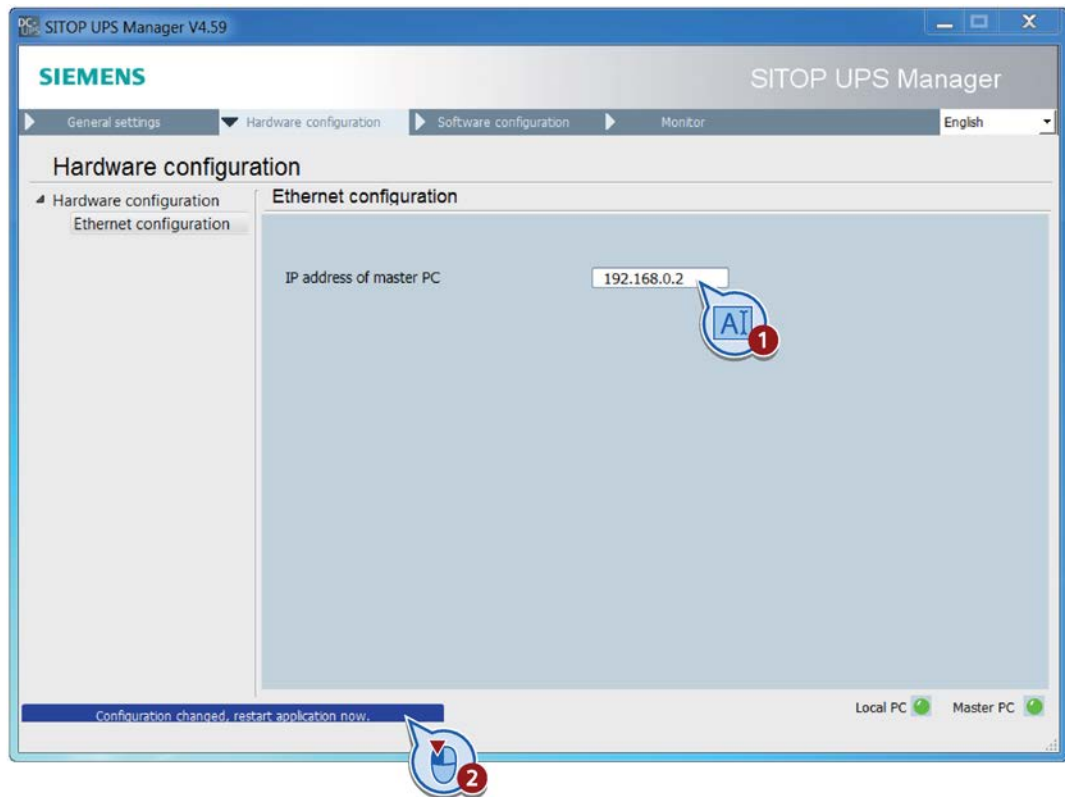


3. Select "Hardware configuration > Ethernet configuration".

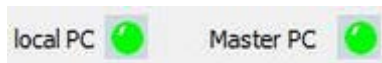


6.2 Buffer several PCs when the power fails and safely run them down

4. Enter the IP address of the master PC in field "IP address of master PC" and restart the program (application) by clicking on "Configuration changed, restart application now".



The connection lamps light green; the connection as slave PC to the master PC has been established.

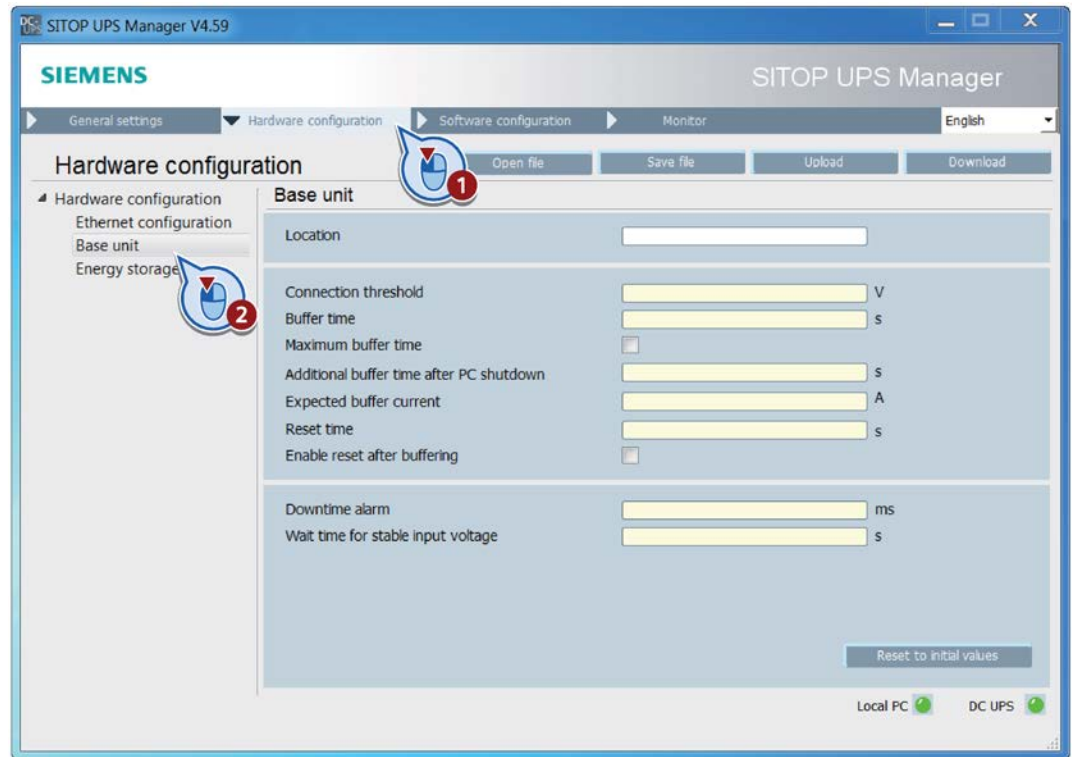


Buffering several PCs when the power fails

Hardware configuration

The following parameters of the hardware configuration are only saved on the **master PC**. This menu is not available for the slave PC, it is automatically controlled with the parameters of the master PC.

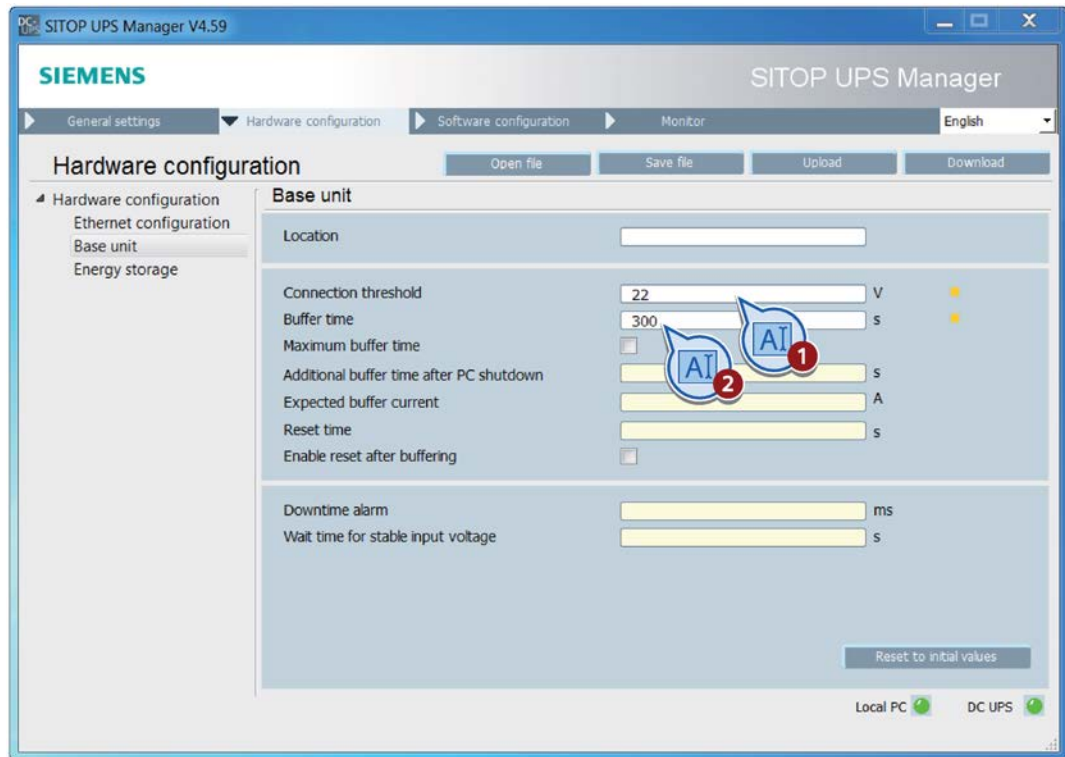
1. In the SITOP UPS Manager ", select Hardware configuration > Base unit".



Note

If you keep the mouse pointer over the entry field for approximately 2 seconds, then the entry area for this field is displayed under the mouse pointer.

2. Enter the required connection threshold when the UPS1600 should start buffering.
3. Enter the time that the UPS1600 should buffer.



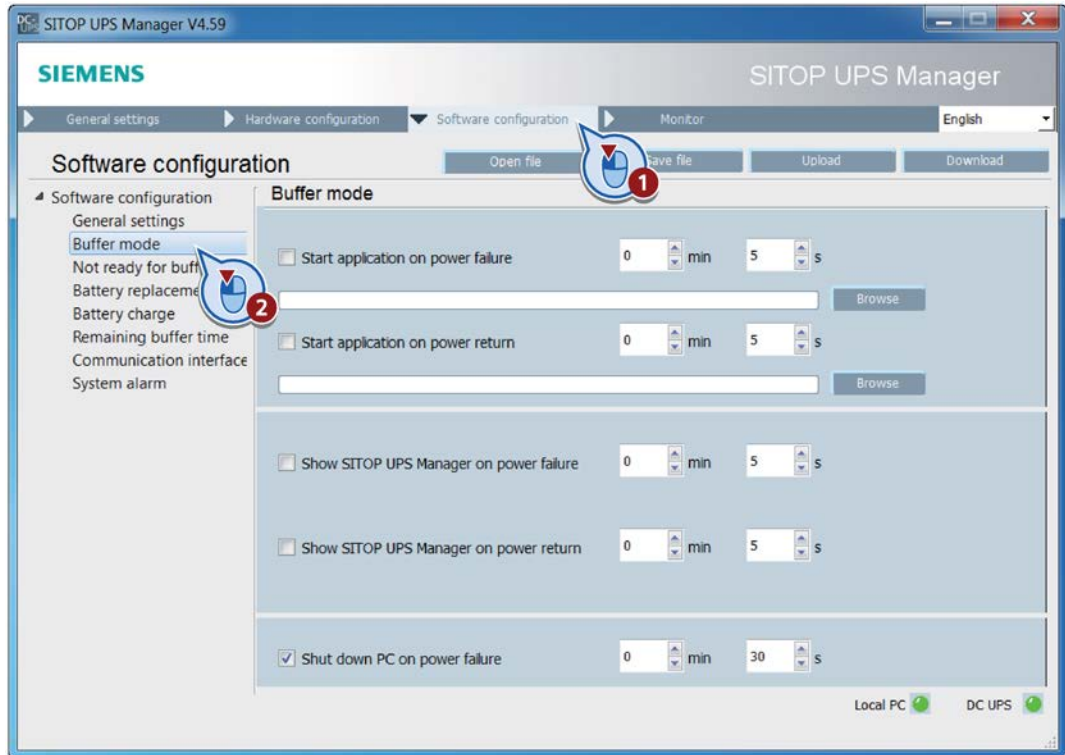
Software configuration

The software configuration can be differently parameterized on the master PC and slave PC. For example, this means that using an appropriate batch file, the master PC can execute tasks before it is run down (data backup etc.), while the slave PC, without the corresponding batch file, is simply run down.

6.2 Buffer several PCs when the power fails and safely run them down

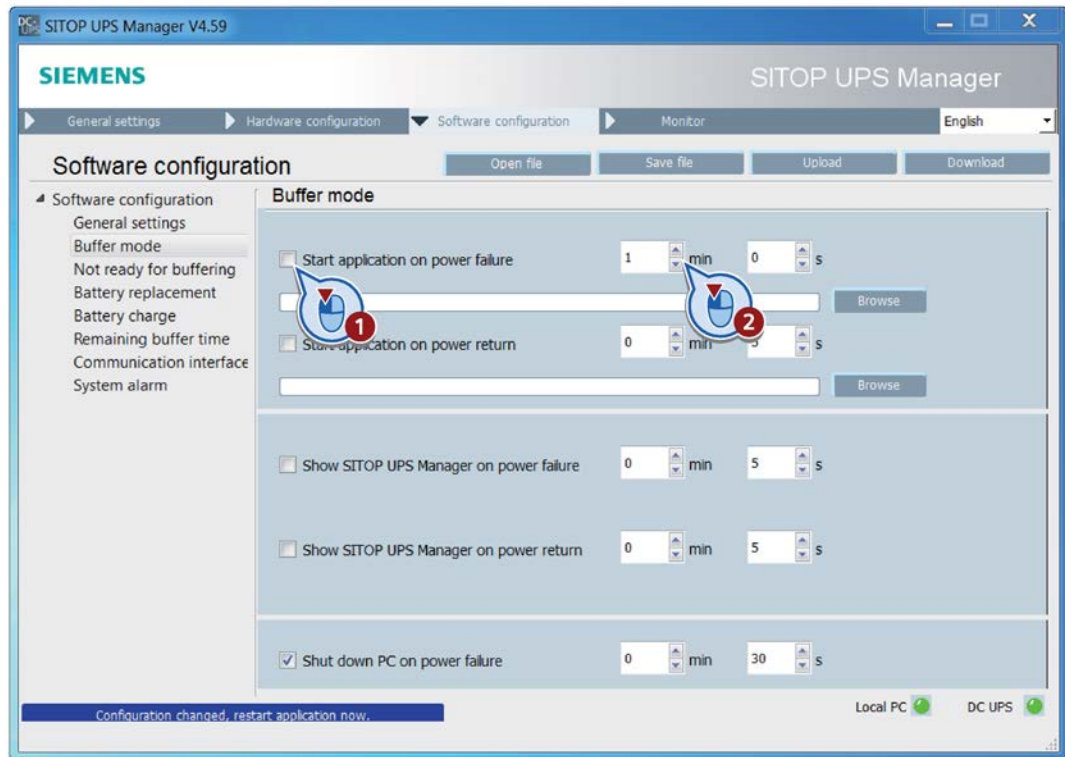
The following steps must be carried out on each of the PCs that are to be reliably run down during buffering.

1. In the SITOP UPS Manager, select Software configuration > Buffer mode".



6.2 Buffer several PCs when the power fails and safely run them down

2. If tasks must be executed on the PC before running down (saving data etc.), select the checkbox "Start application on power failure" and enter the time after which the application should start.
Select this time so that the PC has completely run down before the entered buffer time has expired (see above).



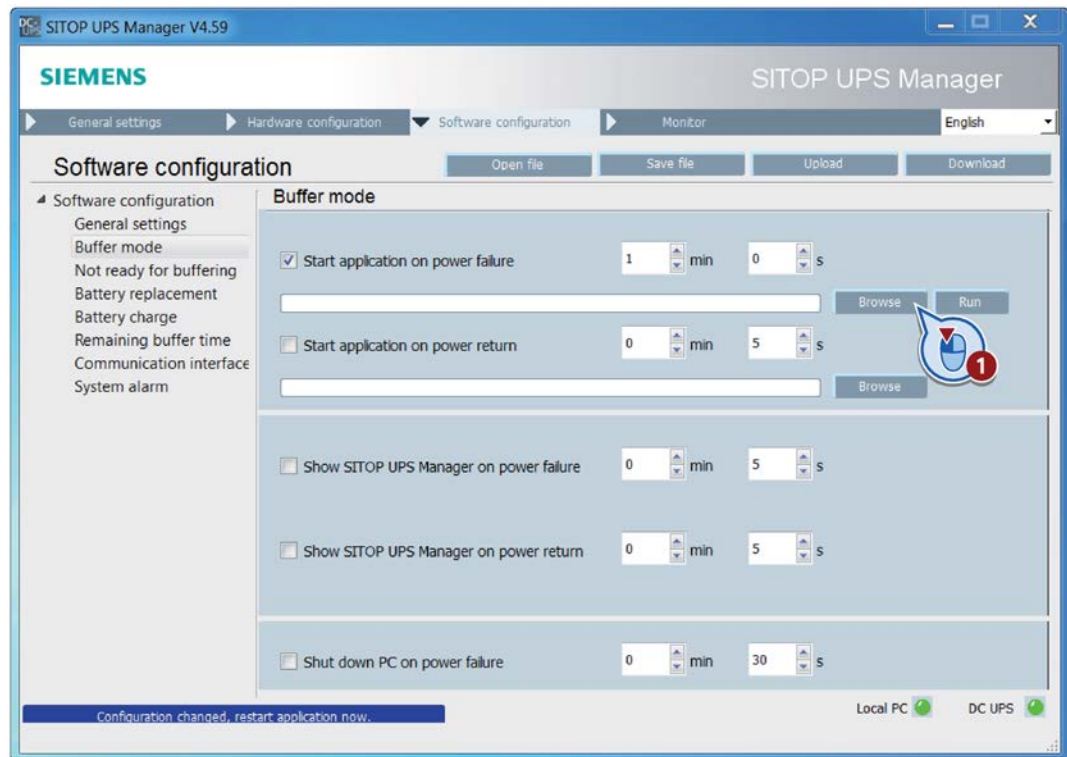
Note

The slave PCs should be run down before the master PC. Ensure that the wait time of the slave PC is shorter than that of the master PC.

6.2 Buffer several PCs when the power fails and safely run them down

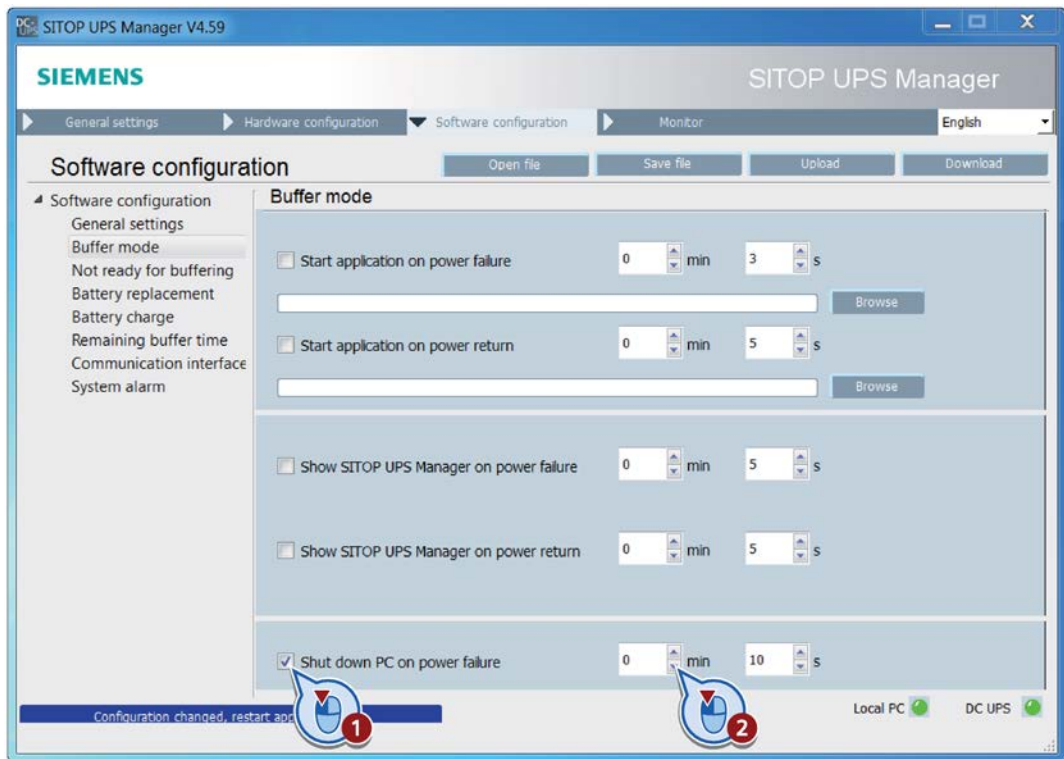
Click on "Browse" and select the batch file that you created with the commands to be executed.

Restart the program and download the parameters to the device (see Points 4. and 5. below).



6.2 Buffer several PCs when the power fails and safely run them down

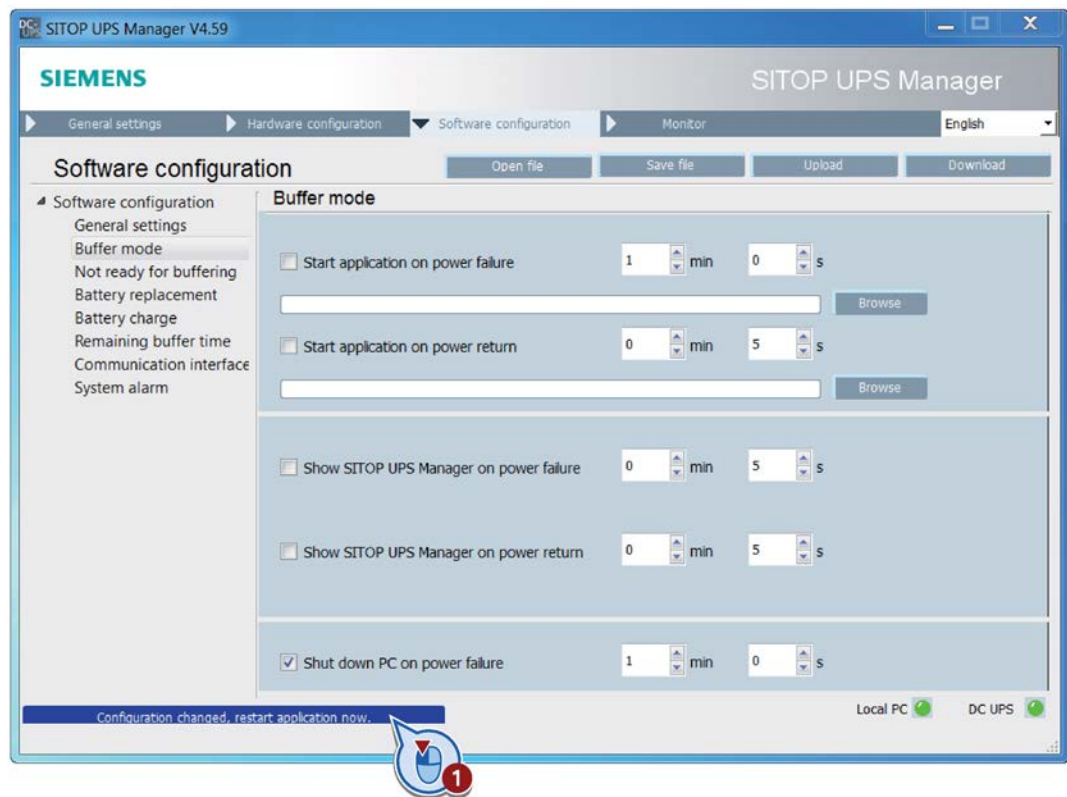
3. If no tasks have to be executed before the PC runs down, select checkbox "Shut down PC on power failure" and enter the wait time.



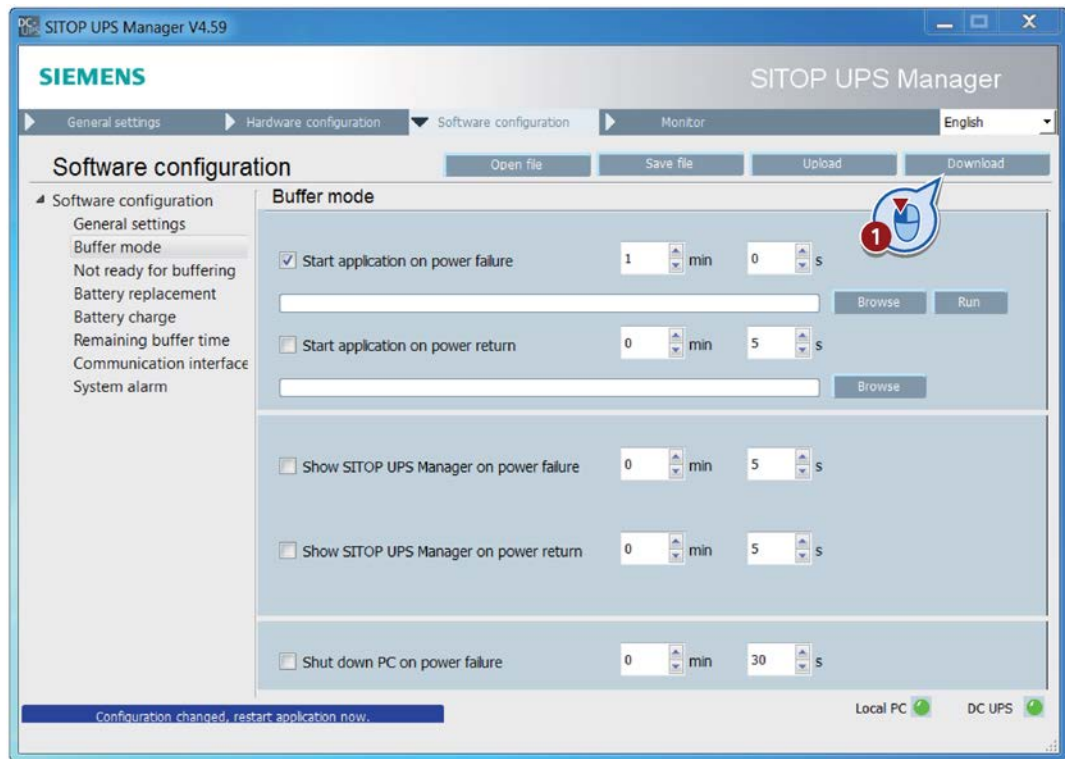
Note

The slave PCs should be run down before the master PC. Ensure that the wait time of the slave PC is shorter than that of the master PC.

- Restart the SITOP UPS Manager by clicking on "Configuration changed, restart application now".



5. To load the parameters that have been entered into the UPS1600, after the program restarts, click on "Download".



You have parameterized the UPS1600 to buffer several PCs when the power fails as well as reliably running down during buffering.