SIEMENS

SIMATIC Industrial PC

Panel Drivers and Tools V1.3 PDT IPC/IFP with capacitive multi-touch screen

Operating Manual

Preface

Panel Drivers and Tools software 1

IPC Configuration Center 2

Software description 3

Technical support A

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Preface

This operating manual applies to the "SIMATIC IPC Panel Drivers and Tools" PDT software in combination with one of the following devices:

- SIMATIC IPC
- SIMATIC IFP

This operating manual describes the installation of the software PDT and the configuration of devices via the SIMATIC IPC Configuration Center.

The information in this documentation takes precedence over statements in the basic operating instructions, the release notes and online help.

Conventions

The following generic terms are used in this document for product names and device type names:

Long form	Generic term
SIMATIC IFP, Industrial Flat Panel	IFP, device
SIMATIC IPC, industrial PC	IPC, PC, device
SIMATIC IPCx77D, SIMATIC IPCx77E	Panel PC
SIMATIC IPCx27D, SIMATIC IPCx27E	Box PC
Device with capacitive multi-touch screen	Multi-touch, MT
Windows Embedded Standard 7E, 7P	WES7E, WES7P
Microsoft Windows 7 Ultimate	Windows 7
Microsoft Windows 10 Enterprise, Version 1607 (Build 14393) 64-bit Microsoft Windows 10 Enterprise, Version 2016 LTSB (Build 14393) 64-bit Microsoft Windows 10 Enterprise, Version 2015 LTSB (Build 10240) 64-bit	Windows 10
SIMATIC IPC Panel Drivers and Tools	PDT, Panel Drivers and Tools
SIMATIC IPC Configuration Center	ICC *, IPC Configuration Center, Configuration Center

* ICC is also the name of the Desktop symbol.

Style conventions

Style convention	Scope
"OK"	• User interface terms, for example, dialog names, tabs, buttons, menu commands • Required inputs, for example, limits, tag values. • Path information
"File > Edit"	Operator actions, for example, menu commands, shortcut menu commands.
<F1>, <Alt+P>	Keyboard operation

Figures

This document contains figures of the software described. The figures can deviate slightly from the supplied software.

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- SIMATIC®; SIMATIC HMI®; SIMATIC Industrial Flat Panel®; SIMATIC IPC®
- WinCC®

History

The following earlier release versions of these operating instructions have been published:

Edition	Comment
04/2016	First edition V1.1
01/2017	V1.2: Expansion by Touch/Key devices with resistive single touch screen, "Information" tab, IFP ETH commissioning, amendments
10/2017	Remedy

Table of contents

Preface **3**

1 Panel Drivers and Tools software **6**

1.1 Product description 6

1.2 System requirements 7

1.3 Setup 9
1.3.1 Initial commissioning of IPC/IFP 9
1.3.2 Removal 13

2 IPC Configuration Center **14**

2.1 Product description 14

2.2 Overview and tabs 14

3 Software description **19**

3.1 General information 19

3.2 Brightness - SetBrightness 19
3.2.1 Overview IPC/IFP 19
3.2.2 Setting the display brightness 19
3.2.3 Command line call 21

3.3 Information 22

3.4 Screen saver - IPCScreenSaver 24

3.5 Tools - Rightclick and WinMove 27
3.5.1 Overview 27
3.5.2 Rightclick Selector 28
3.5.3 WinMove 28

3.6 Interlock in clone mode 29
3.6.1 Notes on clone mode 29
3.6.2 Activating the interlock mechanism 29

3.7 Touch settings - Switch Mode 32
3.7.1 Overview 32
3.7.2 Toggling touch mode 33

A Technical support **35**

A.1 Service and support 35

Panel Drivers and Tools software

1

1.1 Product description

The SIMATIC IPC PDT software installs the "IPC Configuration Center" and, optionally, the "IFP Ethernet Monitor" software. The existing hardware components are automatically detected by the associated software.

The most important features of the software are:

- Easy dialog-guided installation
- Simple configuration via the IPC Configuration Center:
  - Brightness
  - Information
  - Screen saver
  - Tools
  - Touch settings

1.2 System requirements

Supported operating systems

The PDT software can run on PCs with the following operating systems:

- Microsoft Windows 32-bit operating system *
  - Windows 7 Ultimate SP1
  - Windows Embedded Standard 7P/E SP1
- Microsoft Windows 64-bit operating system *
  - Windows 7 Ultimate SP1
  - Windows Embedded Standard 7P/E SP1
  - Microsoft Windows 10 Enterprise, Version 1607 (Build 14393) 64-bit
    Microsoft Windows 10 Enterprise, Version 2016 LTSB (Build 14393) 64-bit
    Microsoft Windows 10 Enterprise, Version 2015 LTSB (Build 10240) 64-bit

    Multi-touch fix required! As of Version 1607, for example, for Upgrade 2015. You can find the download and more information in the FAQ 109744105 on the Internet (https://support.industry.siemens.com/cs/de/en/view/109744105).

* 2 GB free hard disk memory required.

* WES7E is only supported in single-touch mode (see section "Toggling touch mode (Page 33)").

NOTICE
Windows Embedded Standard 7E on CFast card For systems with Windows Embedded Standard 7E on a CFast card, the data is compressed and must be unzipped for the installation. The installation of the PDT software can take up to 40 minutes. **Windows Embedded Standard 7E in single-touch mode** In single-touch mode, a maximum of two monitors can be connected to one PC and operated in clone mode.

Software requirements

- One of the operating systems listed in the section "Supported operating systems" was installed.
- The driver of the device manufacturer for the graphics adapter is installed.
- Installed SIMATIC software must be uninstalled.
  - IPC Ethernet Monitor V1.x
  - IPC PDT V1.x
  - IPC Wizard V1.x to 2.x.x

Hardware requirements

For the PDT software, you need a PC with the following properties:

- DVD drive or external USB data carrier
- Display port or DVI interface
- 1 GHz processor or higher, 32-bit (x86) or 64-bit (x64)
- 2 GB RAM
- 3 GB free hard disk memory
- Use graphics driver matching the graphics interface in use
- Screen resolution at least 800 × 600 pixels

Note

Number of IFPs on a PC

The number of IFPs which can be connected to a PC depends on the system configuration and operating mode. You can find the possible combinations in the FAQ 109483774 on the Internet (https://support.industry.siemens.com/cs/us/en/view/109483774).

Multi-touch mode

During installation, a device in multi-touch mode is switched to single-touch mode.

Mixed operation not allowed

The simultaneous operation of the following device combinations in connection with a PC is not allowed:

- Devices with resistive single-touch screen and devices with capacitive multi-touch screen
- Device with display diagonal 4:3 and devices with display diagonal 16:9

1.3 Setup

1.3.1 Initial commissioning of IPC/IFP

A PDT software is pre-installed on preconfigured SIMATIC IPC which automatically installs the Configuration Center and the corresponding software component for the connected device type.

Requirement

- The system requirements (Page 7) are met.
- Keyboard and mouse are connected to the PC.
- The SIMATIC IPC/IFP is connected to the PC with a matching video cable.

Note

Administrator rights required

Installation must be performed with a user account with administrator rights.

Note

Secure Windows logon with "<Ctrl+Alt Gr+Del>"

If secure logon is configured for Windows 7 on the PC, the dialog "Press CTRL+ALT+DELETE or use the Windows Security button to log on." is displayed.

The shortcut "<Ctrl+Alt Gr+Delete>" cannot be entered during logon, and users cannot log on.

Follow these steps to log on users:

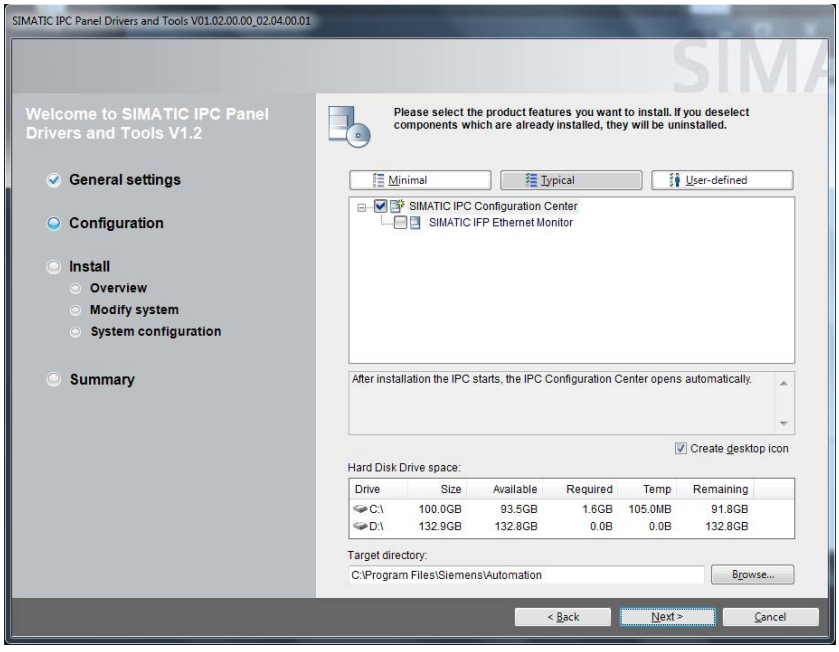
1. Using a DisplayPort cable, connect the PC with a monitor, keyboard and mouse.
2. Under Windows, activate the "On Screen Keyboard" (OSK).
3. Shut down the PC.
4. Perform the commissioning process.
5. For Windows logon, activate the OSK and enter the shortcut "<Ctrl+**Alt Gr**+Delete>".

Procedure

1. Switch on the power supply of the PC.
2. Switch on the PC.

   Installation of the PDT software starts automatically on preconfigured SIMATIC IPCs. If not, see the section "Procedure for PCs that are not preconfigured".
3. The installation dialog opens: The installation steps on the left are are completed from top to bottom.

   First accept the license conditions and click "Next".
4. You activate the required software components in the "Configuration" tab, depending on the device type. Then click "Next".



5. Follow the instructions. The setup installs the associated software.

   This process may take anywhere up to thirty minutes.
6. Restart the PC and log into the user account with administrator rights.

Procedure for PCs that are not preconfigured

If the PDT software does not exist and/or does not start automatically:

1. If the PC does not have an operating system, install an operating system with all the required components.

   If you run the installation from the Restore DVD: Restart the PC once installation is complete.
   Continue with step 3 in the section "Procedure".

2. If a setup of the SIMATIC IPC Wizard or SIMATIC IPC Panel Drivers and Tools V1.1 is already installed on the PC:

   – Uninstall this setup via the Control Panel.

   – Restart the computer.

3. If the PC does not have a DVD drive, copy the entire directory of the PDT software including subdirectories from the "Documentation and Drivers" CD/DVD (included in scope of delivery of the SIMATIC devices or can be ordered) to a USB memory stick.

4. Place the "Documentation and Drivers" CD/DVD into the DVD drive of the PC. Alternatively, connect the USB memory stick to the PC.

5. Start the installation with the "Start.exe" file in the directory of the PDT software.

6. Continue with step 3 in the section "Procedure".

PPI settings for new users

Note

Size of the operator controls

The operator controls of Windows applications have a different size depending on the different screen sizes. By adjusting the PPI resolution you set the operator controls to an operable size. Only for the standard user, however, and not for other users.

- To set the PPI resolution for a different user, log on as new user with your own Account and click "Start > Siemens Automation" in the Windows Start menu.

  "Set SIMATIC IPC Windows PPI Settings".

  Restart the computer to apply the values for the desktop.

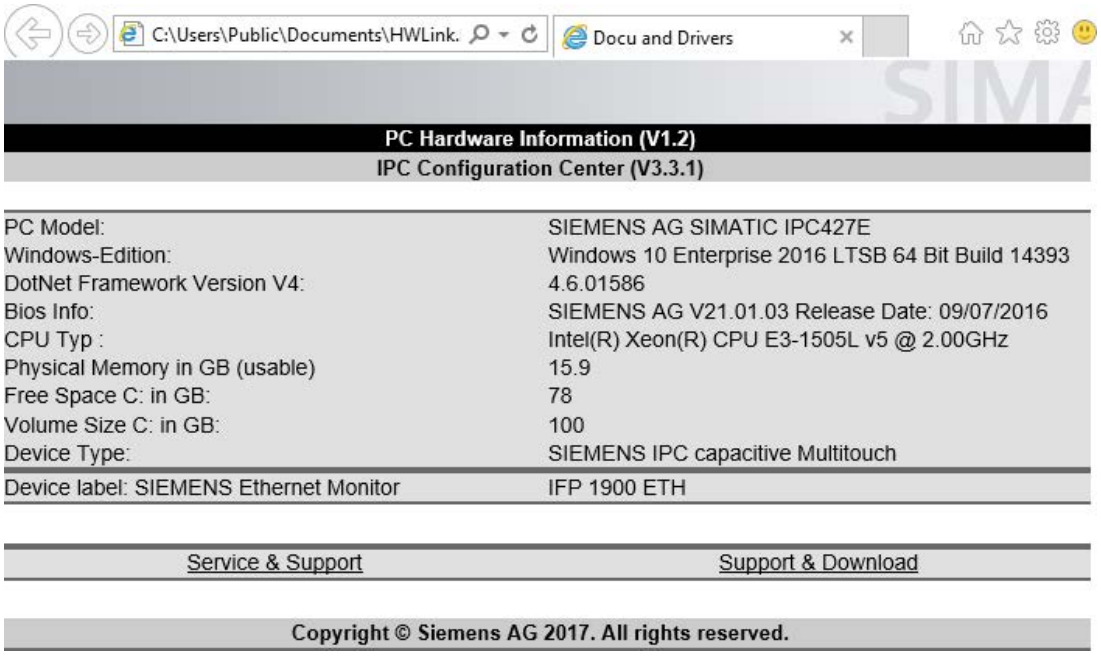
- **Uninstall**: To remove the adjusted PPI resolution for the desktop, click "Set default Windows PPI Settings" in the Windows Start menu "Start > Siemens Automation".

  Restart the computer to apply the values for the desktop.

Support information

The link "IPC_Service&Support" on the desktop provides a brief summary of the PC hardware information.

This HTML page is created at the time of installation and can be called later in the browser.



1.3.2 Removal

Requirement

- The SIMATIC PDT software is installed.

Note
Administrator rights required

The software must be uninstalled with a user account with administrator rights.

Procedure

1. The following applies to Box PCs: Connect an external monitor to the DisplayPort or DVI interface on the PC.
2. If you have activated the "Right-click Selector" or Winmove" tools, disable these tools.
3. Uninstall the SIMATIC PDT software.
4. Restart the PC and log into the user account with administrator rights.

See also

Toggling touch mode (Page 33)

IPC Configuration Center 2

2.1 Product description

Along with the PDT software, various software components are installed on your PC depending on the device features, allowing you to configure the SIMATIC IPC or connected SIMATIC Industrial Flat Panel. The IPC Configuration Center provides a convenient interface for operating these software components.

You can use the Configuration Center to configure your device directly or open the respective setting dialogs of the operating system.

2.2 Overview and tabs

Requirement

- A corresponding software component is installed for each SIMATIC device type on the PC (see initial commissioning):
  - for SIMATIC Monitor Standard: SIMATIC IFP Monitor software
  - for SIMATIC IPC/IFP with resistive single-touch screen: SIMATIC Single-touch software
  - for SIMATIC IPC/IFP with capacitive multi-touch screen: SIMATIC Multi-touch software
  - for SIMATIC IPC/IFP Touch/Key with resistive single-touch screen: SIMATIC PhoneKeyPad software
  - for SIMATIC IFP ETH: SIMATIC Ethernet Monitor software
- The system requirements (Page 7) are met.

Note

Device detection

If you connect another device of the same SIMATIC device type during operation, for example, a second device with resistive single-touch screen or if a device is not recognized, close the Configuration Center and open it again. The additional devices will then be detected. Alternatively, refresh the Configuration Center using the menu.

If you connect a SIMATIC device type (see above) for which no corresponding software component has been installed on the PC yet, the device is not recognized. You must install the missing software component as follows:

1. Remove the connection of the device type from the PC.
2. Uninstall the Panel Drivers and Tools software.
3. Connect the device type with the PC.
4. Install the Panel Drivers and Tools software again.

The missing software component is installed and the SIMATIC device type is recognized afterward.

If a SIMATIC device type is still not recognized, check the connecting cables and the device version.

Note

Windows Fast User Switch

Only one instance of the Configuration Center can be open at a given time. This is why "Windows Fast User Switch" for switching between multiple simultaneously logged on users is not supported.

1. Close the Configuration Center.
2. Open the Configuration Center as a different user.

Opening the Configuration Center



- Start the IPC Configuration Center ICC using the associated Desktop icon or - if enabled - using the icon in the information area of the taskbar (see section "Configuration Center Settings").

  Alternatively, select "Start > All Programs > Siemens Automation > IPC Configuration Center > IPC Configuration Center".

The Configuration Center starts and retrieves the data of the connected devices. This process may take several minutes.

Closing the Configuration Center

You close the Configuration Center in the menu bar via "Menu > Exit".

Alternatively, close the Configuration Center - if enabled - using the icon in the information area of the taskbar: Select the menu item "Exit" in the shortcut menu of the "ICC" icon.

You conserve system resources by closing the Configuration Center. The functions of the Configuration Center are still being executed, e.g. screen saver, right-click, etc.

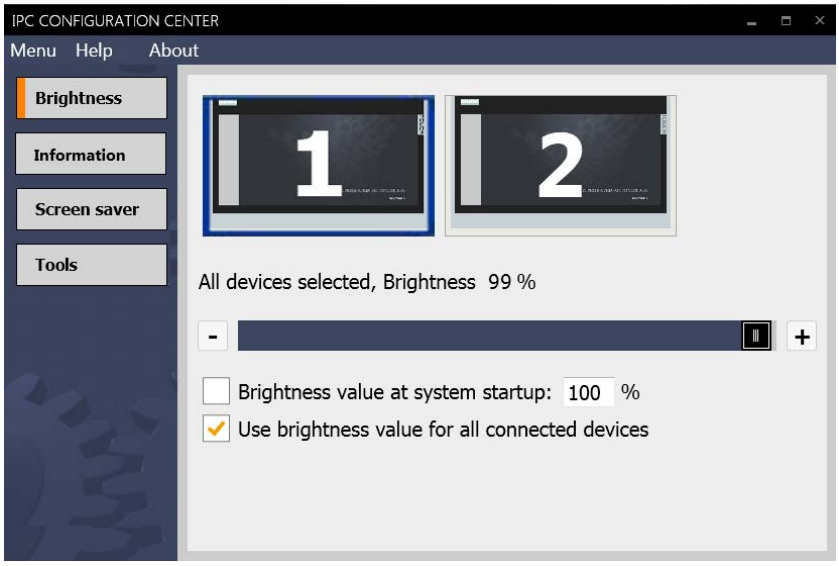
Refreshing the Configuration Center

You refresh the Configuration Center in the menu bar via "Menu > Refresh". The Configuration Center updates the information on the connected IFPs.

Operating the Configuration Center

Change a setting directly on the interface. All settings are immediately applied and permanently stored.

Depending on the device features, one or more software components on the device are shown in summary in several tabs at the left. The following figure shows an example.



- "Brightness" tab: individual adjustment of the brightness of all connected devices.
- "Information" tab displays basic information about the device.

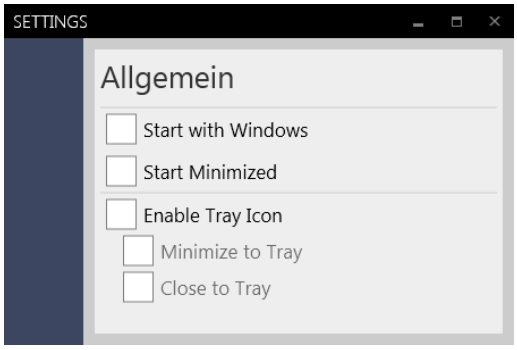
- "Screen Saver" tab: activates and configures the "IPCScreenSaver" screen saver.
- The "Tools" tab includes the following additional functions:
  - Triggering a right-click.
  - Moving the screen content on devices with a vertical resolution of ≤ 600 pixels. This gives you access to operator controls that are located outside the screen.

Configuration Center Settings

You configure the Configuration Center in the dialog "Settings", which you open in the menu bar via "Menu > Settings".

Alternatively, open the "Settings" dialog - if enabled - using the icon in the information area of the task bar: Select the "Settings" menu item in the shortcut menu of the "ICC" icon.

The following options are available:



- "Start with Windows": The Configuration Center is also started with the operating system (Autostart).
- "Start minimized": When the Configuration Center is started, it is minimized in the task bar.
- "Enable Tray Icon": The "ICC" icon (Tray Icon) appears in the information area.

The following options are available when the "ICC" is enabled:

- "Minimize to Tray": If you press the "Minimize window" Windows icon in the Configuration Center, it does not appear minimized in the taskbar, but as "ICC" icon in the information area.
- "Close to Tray": If you press the "Close window" Windows icon in the Configuration Center, it is not closed, but appears as "ICC" icon in the information area. To close the Configuration Center, proceed as in the "Close Configuration Center" section.

- "Interlock" tab: The interlock prevents simultaneous operation of multiple devices.
- "Touch settings" tab:
  - Assigning several closed displays using "Tablet PC settings".

    Note

    Assignment: Extended monitor mode with two or more screens

    To extend the desktop to include all connected touch devices, you must assign the physical touch devices to the respective screens under Windows for the first time:

    1. Restart the computer.
    2. Connect an external keyboard to the PC.
    3. In the "Interlock" tab, disable the "Activate interlocks" option.
    4. Click on the "Tablet PC settings" button.
    5. Change to the "Display" tab.
    6. Click the "Setup" button.

       Next you will see a white screen with a prompt. Touch this screen to identify it as touch screen.
    7. Touch the touch screens one after the other (number 1, 2,... in the display), two times each, and exit using any key on the external keyboard.
    8. For touch devices in Clone mode, the white screen is displayed on both monitors simultaneously. Touch the left touch screen, for example.
    9. To complete the assignment, press any key once again.
    10. Check whether the touch assignment to the individual touch devices is correct and the touch screen can be operated. If this is not the case in Clone mode, repeat the assignment starting with step 3 and select the right touch screen in step 7.

  - "Switch Mode": toggles between multi-touch mode and single-touch mode.
  - Screen display: Toggles all connected devices between portrait and landscape orientation.

Software description

3

3.1 General information

Note

Full device detection

If you connect or remove an IFP while the Configuration Center is open, this change is not immediately detected by the Configuration Center. Only when an IFP has been fully detected can you make settings for this IFP in the Configuration Center. For full detection or update of the devices in the Configuration Center, select "Menu > Refresh" or restart the Configuration Center.

3.2 Brightness - SetBrightness

3.2.1 Overview IPC/IFP

Adjusts the display brightness for all connected and detected devices. If the PC used is a third-party PC, setting the display brightness of the PC is not supported.

3.2.2 Setting the display brightness

Procedure

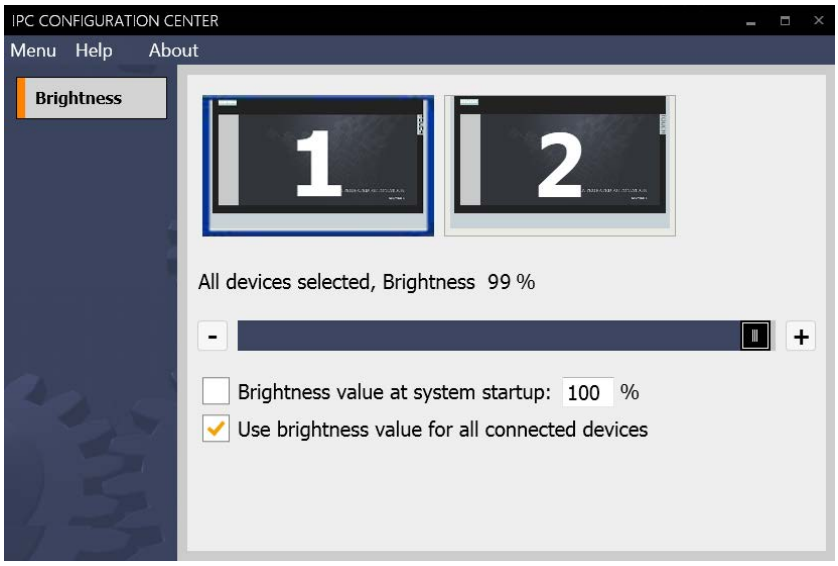
Note

Deviating numbering

Depending on the graphics chip and operating system, the sequential numbering of the devices may deviate from the numbering in Windows:

1. Open the Configuration Center and go to the "Brightness" tab.

2. Select the device whose brightness display you want to change. The following example shows two device displays. In the example, device "1" is selected, all other devices are not selected. If no device is selected, the display brightness of all devices is changed to the same degree.



3. Set the desired display brightness. You have the following setting options:
   - Using the slider. The set value is applied when you release the slider.
   - Using the "Increase brightness (+)" and "Decrease brightness (-)" buttons.

   Note

   The minimum value for the brightness setting is 10%. If you select a value of less than 10% using one of the setting options, the brightness value is automatically set to 10%.

4. To set a fixed brightness value for all devices at every system startup, except for hibernation (standby), select "Brightness value at system startup".

   Enter the desired brightness in percent in the box on right. The setting is valid only for the current user and first takes effect upon logon.

   If you disable "Brightness value at system startup", the brightness value set in step 3 takes effect.

5. If necessary, enable "Use brightness value for all connected devices". Alternatively, click in the empty box next to the device icons. Then the brightness is the same again for all devices.

Buttons in the preview window

If the Configuration Center is started and appears as an icon in the taskbar, you can also change the brightness using the small buttons above the icon in the preview window.

3.2.3 Command line call

Call parameters

A parameter can be specified for the command line call of the "SetBrightness" program.

Note

In contrast to the graphical interface, the minimum value is set to 0% in command line mode. In this case, the backlighting is switched off. By pressing an input device, for example, a touch screen or keyboard, the display is switched on again with 100% brightness value. The first input event, for example, a mouse click, is discarded in this case to avoid an unintentional incorrect operation.

[VALUE] parameter

Value	Explanation
0 to 100	Brightness in percent

Example of command line call: `setbrightness.exe 50`sets the brightness to 50%.

Suppression of batch process window

With a command line call, a black Windows output window of the batch process is displayed briefly.

To suppress the Windows output window, start the "SetBrightness.exe program via the following example source code in C# syntax:

```
var process = new Process
{
   StartInfo = new ProcessStartInfo
   {
      FileName = "SetBrightness.exe",
      Arguments = "[number]", // [number] Value (0 -100)
      WindowStyle = ProcessWindowStyle.Hidden
   }
};
process.Start();
```

3.3 Information

Introduction

The "Information" tab shows the device configuration and connected components of SIMATIC IPC/IFP whose data is currently being read out by the device. Information about the device and the connected network connections can also be displayed.

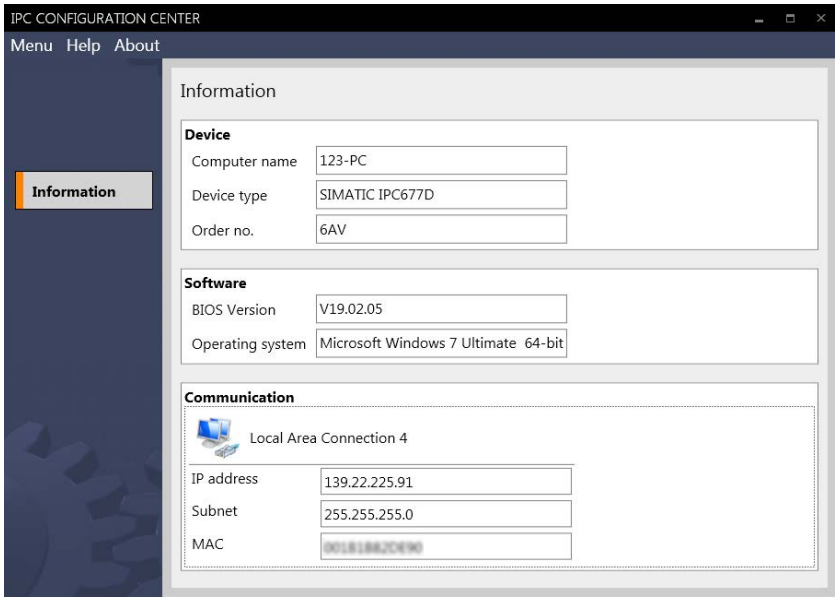
Note

Different information

Different information can be displayed depending on the connected hardware. The software automatically detects the connected hardware. If components such as network adapters are changed, the Configuration Center must be refreshed (see "IPC Configuration Center" section).

Displayed information

The following information is read out:



Area	Information
Device	Basic information on the device: • Device name • Device type • Order number
Software	Information on software components: • BIOS version • Operating system
Communication	For each connected network adapter, for example LAN: • Adapter name • IP address • Subnet mask • MAC address

3.4 Screen saver - IPCScreenSaver

Introduction

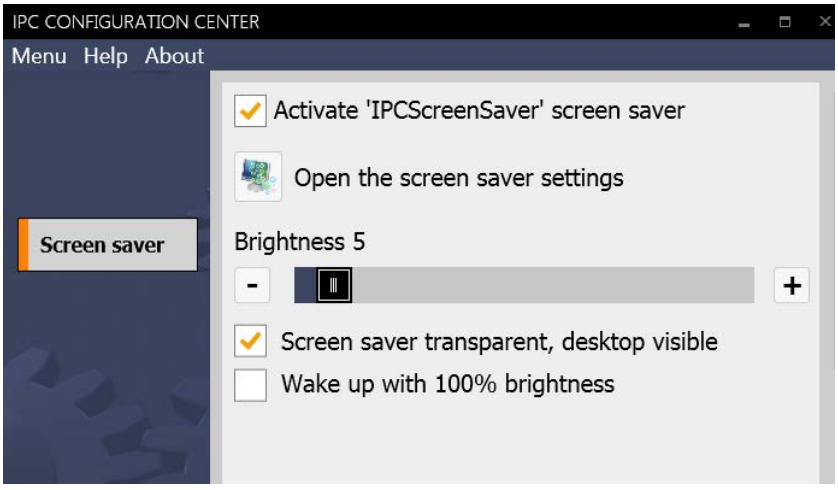
The SIMATIC screen saver "IPCScreenSaver" is a standalone software component that is installed via the PDT software. You can configure the screen saver in the Configuration Center, from which you also open the Windows standard dialog "Screen Saver Settings".

The "IPCScreenSaver" switches on after a configured time, e.g. 1 minute. Then the brightness of all connected devices is set to the configured value, e.g. 23%. In contrast to most conventional screen savers, the "IPCScreenSaver" can save energy: The power consumption of screens set to dark is less than screens with high or normal brightness.

NOTICE
Using an IPCScreenSaver as the only screen saver If a Windows standard screen saver is active during operation and the user touches the touch screen to deactivate it, then the display and the touch screen are activated again immediately. Touch operation is immediately evaluated, which can initiate unintended functions in the plant. With "IPCScreenSaver", the first touch of the touch screen is not evaluated and the screen content is displayed again. This means that the first touch to deactivate the screen saver does not initiate any unintended functions. For this reason, use only "IPCScreenSaver" and set the "Turn off the display" option to "Never" under "Start > Control Panel > Power Plan Settings > Choose when to turn off the display".

Procedure

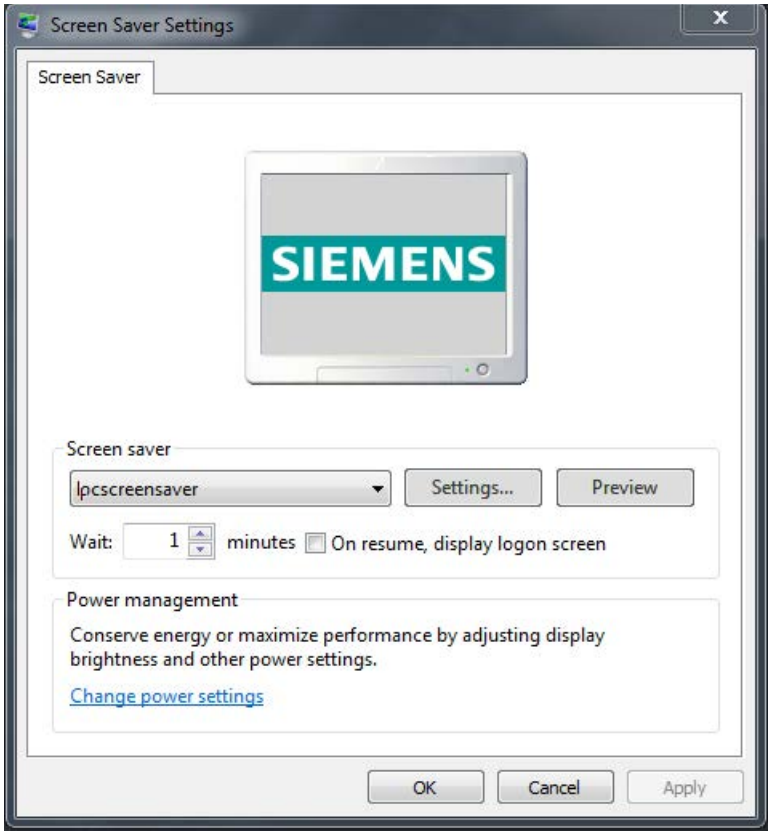
1. Open the Configuration Center and go to the "Screen Saver" tab.



2. Select "Activate 'IPCScreenSaver' screen saver".
3. Set the desired "Brightness" for all the connected devices during the activity of the screen saver using the slider or the "-" and "+" buttons.

   Does not apply to IFP Ethernet monitors: If you set the value "0%" as the "Brightness", the backlighting of the display is disabled.
4. Does not apply to Windows 10: With the "Screen saver transparent, desktop visible" option, the window is transparent and a static screen of the desktop is visible.
5. If needed, select "Wake up with 100% brightness". After the screen saver is switched off, the screens of all connected devices are operated with 100% brightness.

6. Open the "Screen Saver Settings".



The screen saver "Ipcscreensaver" is activated.

Note

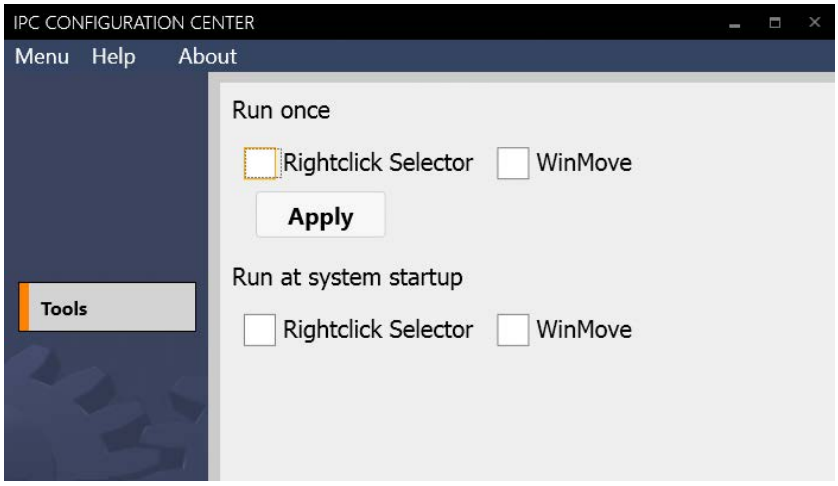
"Ipcscreensaver" is automatically activated, as the option "Activate 'IPCScreenSaver' screen saver" was activated in the Configuration Center, see step 2. If you select a different screen saver than "Ipcscreensaver" in the "Screen Saver Settings" dialog, then the "Activate 'IPCScreenSaver' screen saver" option is automatically deactivated in the Configuration Center.

7. Change the waiting time until a screen saver switches on to the required value.
8. Make additional settings as needed. Close all open dialogs and save the settings with "OK".

3.5 Tools - Rightclick and WinMove

3.5.1 Overview

In the "Tools" tab you can activate or deactivate the programs "WinMove" and "Rightclick Selector".



Distinguish between the following cases:

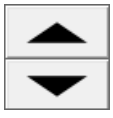
- "Run once" activates the respective program for the ongoing session.
- "Autostart" activates the respective program every time you start the PC on which the Configuration Center is installed.

You activate the changed settings with the "Apply" button and the corresponding program icons are displayed:

"Rightclick Selector" icon



"WinMove" icon



The following subsections describe the functions of the programs.

3.5.2 Rightclick Selector

When you press the "Rightclick Selector" icon, the next mouse click or the next touch of the touch screen is executed as a right-click.



Note

Delay time

There is no delay time in single-touch mode: The right-click function is executed immediately.

If the touch is used as multi-touch, the right-click function is executed with a specific delay. In Windows 7 you can set the delay time with a slider, but you cannot reduce it to zero.

For a multi-touch, Windows must be able to distinguish whether it is evaluating an operation or a right-click that causes the delay time.

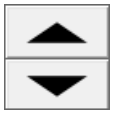
3.5.3 WinMove

"WinMove" allows you to move program windows vertically in order to display window areas that extend beyond the display area. "WinMove" is mainly used on devices with a vertical resolution of ≤ 600 pixels.

Procedure

1. Open "WinMove" using the Configuration Center.

   The "WinMove" window with the "Up" and "Down" buttons is displayed.

2. Move the open program window using the "Up" and "Down" buttons.

Note

Unintentional reaction in Windows 10

WinMove also moves the desktop search option and the lock screen. Therefore, use WinMove only in the active session.

3.6 Interlock in clone mode

3.6.1 Notes on clone mode

In clone mode, all screens of the connected devices show the same content.

The touch screen is secured by means of an interlock mechanism in clone mode; this mechanism prevents incorrect operations due to simultaneous operation.

3.6.2 Activating the interlock mechanism

Introduction

If you have connected two or more touch screens, which are operated spatially separate from one another, two operators can use the same application simultaneously. You use the interlock to prevent reversing an input made by Operator1 through Operator2: A touch operation blocks the operation on all other devices for some time that is reset with each new touch operation.

If you remove a connected device from the PC while it is locked, it releases as soon as you connect it to the PC again. The interlock of a device is a setting in the non-permanent, volatile memory and therefore is only effective during operation.

Note

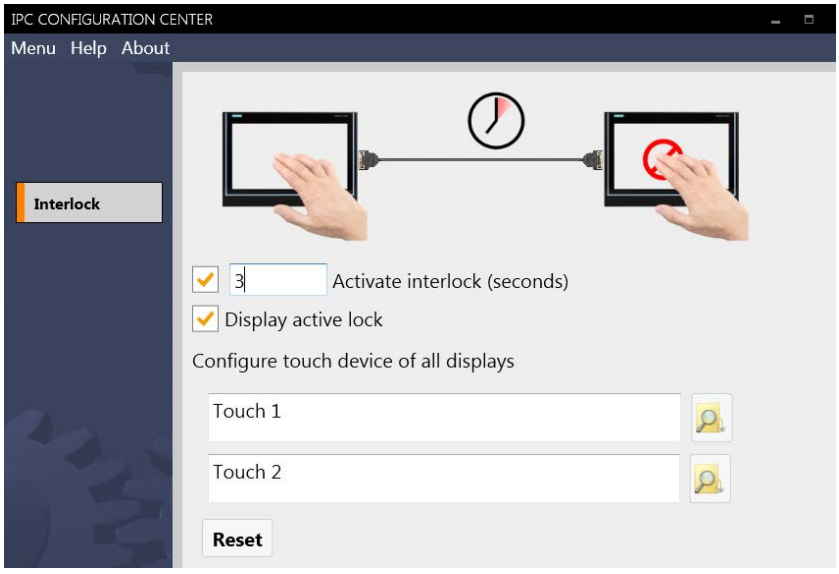
Activation and 2 multi-touch devices required

When you activate the interlock mechanism, it takes effect as of the second multi-touch device even in Extended Monitor operation.

Detect lock

You can assign each device a device name, which is displayed on the screen on the hardware side, e.g. Station 1. If the operator sees the configured image from Station 2, the screen at Station 1 and cannot be operated. The operator can only track third-party operations. If no more operations are performed, the block is removed and the operator can then perform operations at Station 1 again.

Procedure

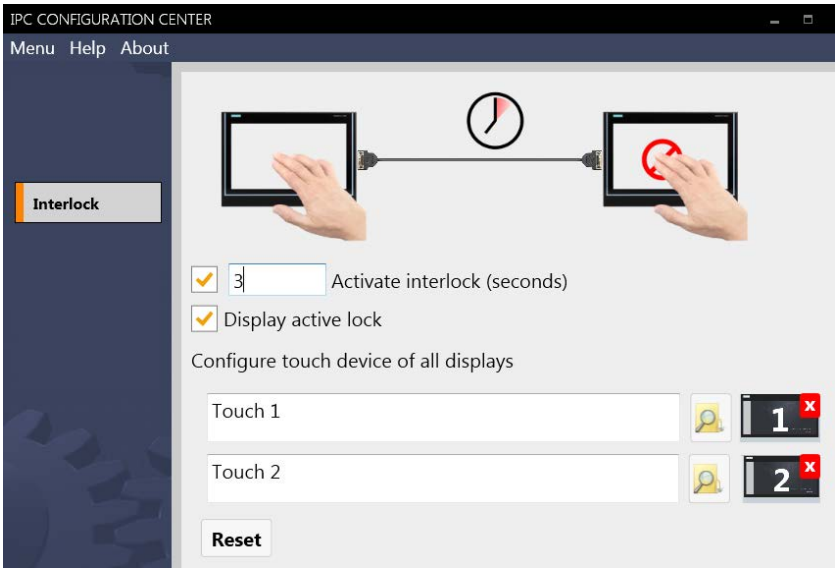


1. Open the Configuration Center and go to the "Interlock" tab.
2. Activate "Activate interlock" (default: activated)
3. Specify the "Timeout", for example, 10 seconds.

   As soon as operation is performed on a device, operation of the other device is blocked for 10 seconds. An input or touch of the touch screen then has no effect for 10 seconds.
4. If you activate "Display active lock", an optical signal indicating the interlock appears on displays that are connected to the PC. In clone mode, the same signal appears on both displays.

5. Touch a touch device, e.g. "Touch 2". The associated input box is marked blue under "Configure touch device of all displays". In this field, assign a device name which is displayed on the associated touch device.

   Alternatively, open the file selection dialog on the right and select a .png image which is displayed instead of the device name. Some standard images are stored in the directory "...\Siemens\Automation\ICC". With a graphics program, you can create an image yourself and store it in this directory as a .png image. You need administrator rights to store your own images.

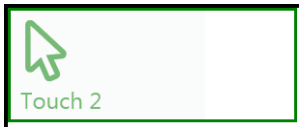


   The selected image is displayed in the preview with a red "close" cross. When you click the "Close" cross, the image is discarded as the display and the device name is displayed again.

   Clicking the "Reset" button resets all the settings.

Optical signaling of the interlock during operation

The following figure shows an example of the icon which appears on all displays during interlock. The text "Touch 2" was used in the example.



You can change the position of the icon on each display by selecting the icon, keeping it selected and moving the icon.

3.7 Touch settings - Switch Mode

3.7.1 Overview

You operate a device a with a capacitive multi-touch screen using up to five fingers. In doing so, the device recognizes gestures such as swiping, zooming, and rotating. The operating system WES7E is not suitable for multi-touch devices.

The "Switch Mode" button switches the touch controller of a connected multi-touch device (five fingers, gestures) to single-touch mode. In single-touch mode, the device react like a single-touch device that you operate with a single finger only and without gestures.

After the changeover, you can operate your multi-touch device with the WES7E operating system.

Differences and limitations in single-touch mode

- **Opening the shortcut menu**: In order to open the shortcut menu in single-touch mode, follow these steps:

  Tap and hold a position 1 and briefly tap on any position 2 while doing so.

- **Changeover** Multi-touch / single-touch mode in "Landscape" orientation.

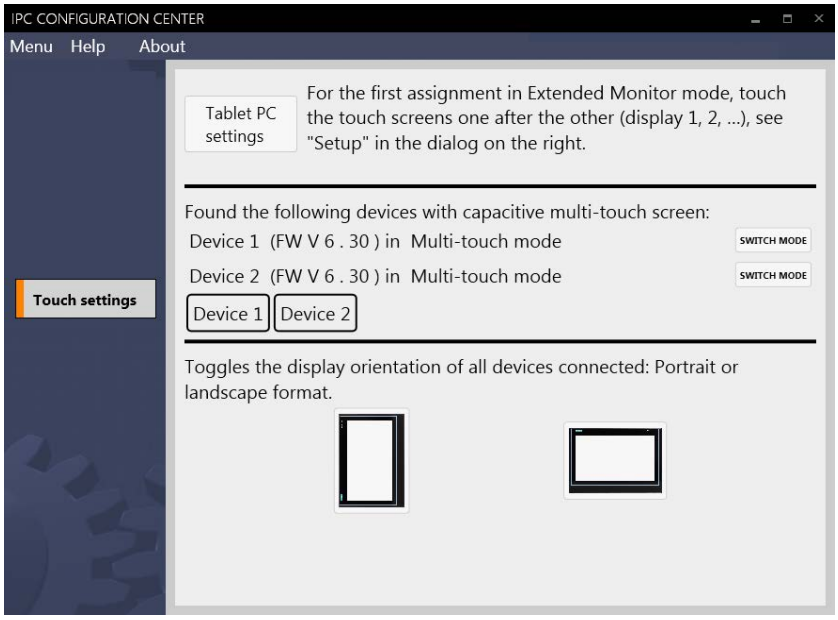
  In single-touch mode, you can operate up to two touch devices in Clone mode. If more than two touch devices are connected to a PC with WES7E, only two touch devices can be operated.

The standard display and mouse functions can be used without any restrictions.

3.7.2 Toggling touch mode

Device detection

All detected devices are displayed in a list in the center of the "Touch settings" tab in the Configuration Center. In addition to the device name, the touch mode of a device is shown: Multi-touch mode or single-touch mode.



Procedure

1. To determine which entry in the list belongs to a given device, operate the connected devices one by any with a touch input. The connected devices are displayed by means of a button.
2. To change the touch mode for a device, click on the respective "Switch Mode" button. The touch mode of the device displayed next to the button changes.

   Toggling can change the order of the devices in the list. Multi-touch devices are always displayed first.

Toggling in single-touch mode

1. Click on the "Switch Mode" button.

   The device is in **single-touch mode.**
2. **Check**: If you draw a rectangle on the touch screen with your finger, you will see an arrow – the typical mouse pointer – under your finger.

Toggling in multi-touch mode

In order to change back to multi-touch mode, follow these steps:

1. Click on the "Switch Mode" button.

   The device is in **multi-touch mode.**

2. **Check**: If you draw a rectangle on the touch screen with your finger, you will see a small dot under your finger.

Removal

Note

If the device is left in single-touch mode, it is no longer switched to multi-touch mode during removal. This means you can continue to use multi-touch mode even after removal.

Technical support

A

A.1 Service and support

You can find additional information and support for the products described on the Internet at the following addresses:

- Technical support (https://support.industry.siemens.com)
- Support request form (http://www.siemens.com/automation/support-request)
- After-sales information system for SIMATIC PC / PG (http://www.siemens.com/asis)
- SIMATIC Documentation Collection (http://www.siemens.com/simatic-tech-doku-portal)
- Your local representative (http://www.automation.siemens.com/mcms/aspa-db/en/Pages/default.aspx)
- Training center (http://sitrain.automation.siemens.com/sitrainworld/?AppLang=en)
- Industry Mall (https://mall.industry.siemens.com)

When contacting your local representative or Technical Support, please have the following information at hand:

- Order number of the device (MLFB)
- BIOS version (industry PC) or image version (HMI device)
- Installed additional hardware
- Installed additional software

Tools & downloads

Please check regularly if updates and hotfixes are available for download to your device. The downloads are available on the Internet under "After Sales Information System SIMATIC PC/PG" (see above).