



Installation Instructions

# Leica IP C and IP S

## Printer Driver Software

For the Windows 7 (32/64-bit) and Windows XP (32-bit) operating systems

Installation Instructions V 1.0 RevA, English 04/2013

**Order No.:** 14 0602 82101



## Table of contents

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<b>1.</b>	<b>Introduction .....</b>	<b>2</b>
1.1	Overview .....	2
1.2	Area of validity .....	3
1.3	General installation instructions .....	3
<b>2.</b>	<b>Windows 7 (32-bit and 64-bit) .....</b>	<b>4</b>
2.1	Uninstalling the existing IP printer driver software .....	4
2.2	Uninstalling the IP printer.....	5
2.3	Uninstalling the IP printer driver .....	6
2.4	Creating the printer directory and installing the help files .....	9
2.4.1	Downloading the IP printer driver from the Leica Biosystems website.....	10
2.5	Installing the printer driver.....	10
2.6	Printer installation .....	14
2.7	Version check.....	23
<b>3.</b>	<b>Windows XP (32-bit) .....</b>	<b>26</b>
3.1	Uninstalling the existing IP printer and printer drivers .....	26
3.2	Creating the printer directory and installing the help files.....	29
3.2.1	Downloading the IP printer driver from the Leica Biosystems website.....	29
3.3	Installing the printer driver.....	30
3.4	Printer installation .....	33
3.5	Version check.....	42

# 1. Introduction

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## 1.1 Overview

The Leica Biosystems website makes separate, up-to-date drivers for the Leica IPC and IPS printers available for download for the Windows XP (32-bit), Windows 7 (32-bit) and Windows 7 (64-bit) operating systems.

These drivers are also available on the CD-ROM accompanying the printed Instructions for Use.

Printer driver Version 2.5 is needed for installation on a computer with Windows XP (32-bit) or Windows 7 (32-bit) operating systems, while Version 2.6 of the printer driver has to be installed for the Windows 7 (64-bit) operating system.

The installation is carried out in four steps:

- Step 1: Uninstalling or checking whether any IP printer drivers are preinstalled in the system.
- Step 2: Installing the help files for users.
- Step 3: Installing and configuring the printer driver.
- Step 4: Version check. An incomplete installation without, say, help files will not be accepted by the system.

The difference compared to previous drivers is the new help files, which, in the event of an error message, show the user corresponding on-screen instructions. The handling of these files is documented by an integrated help function.



**The previous drivers for Windows XP Version 2.0, Windows Vista Version 2.34 and Windows 7 32-bit Version 2.40 remain in their current state instead of being further updated.**

## 1.2 Area of validity

For using the IP C / IP S printers with the Windows XP / Windows 7 (32-bit) or Windows 7 (64-bit) operating systems, including the new help function.

## 1.3 General installation instructions

### Requirements:

- If necessary, the local IT administrator has to grant the user the needed user rights for installing the printer driver.
- For every printer to be installed, a functional COM port has to be available under the device manager before the installation is carried out.

### General:

- These installation instructions are documented using the Windows 7 (32/64-bit) and Windows XP (32-bit) operating systems.

## 2. Windows 7 (32-bit and 64-bit)

### 2.1 Uninstalling the existing IP printer driver software



Ensure that no print job has begun and no message is sent from the printer to the computer.

The description in Chapter 2.1 applies only to the new printer driver Versions 2.6 for Windows 7 (32-bit and 64-bit).

Under "Start/Control Panel/All Control Panel Items/Programs and Features" (1), select the "IP C" or "IP S" driver (2) and click "Uninstall" (3).

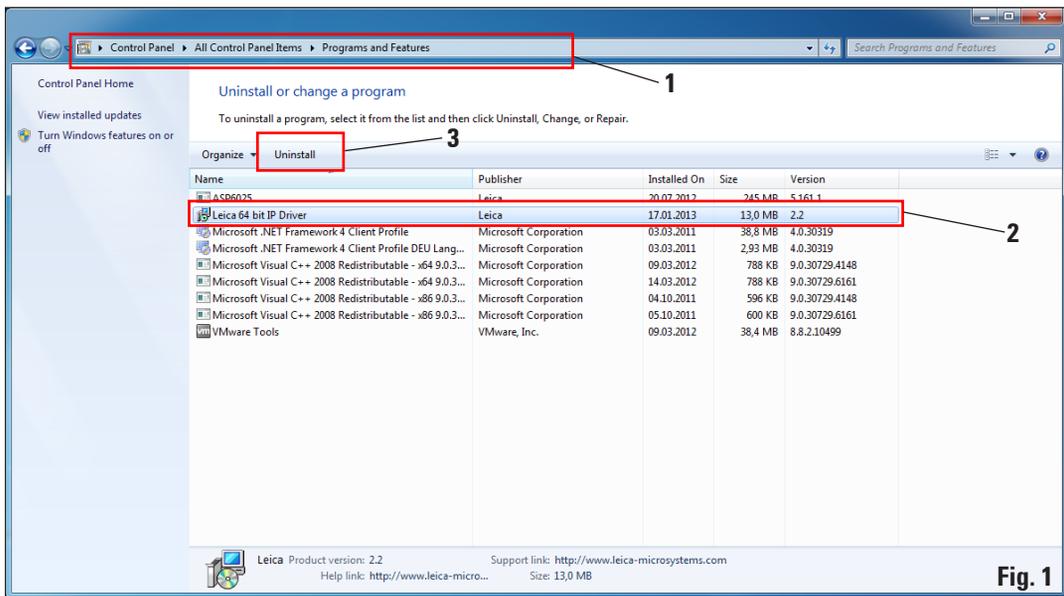


Fig. 1

Click "Yes" to confirm the system message.

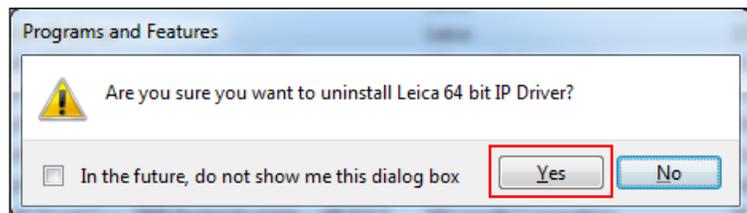


Fig. 2

### 2.1 Uninstalling the existing IP printer driver software (continued)

Click **"Yes"** to confirm the system security message to continue and finish the uninstallation.

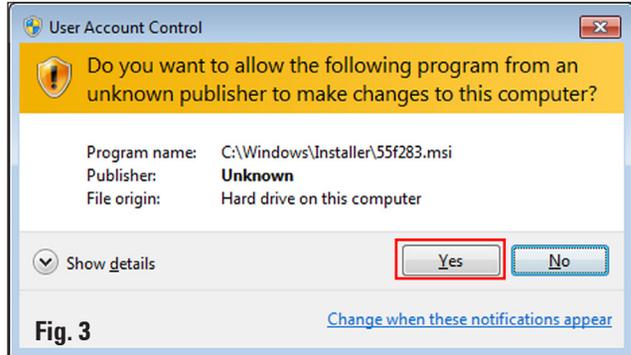


Fig. 3

### 2.2 Uninstalling the IP printer



The following description applies to all IP printer driver versions.

Open **"Start/Devices and Printers"** and select the printer to be deleted (for example, **"IPC"**) by right-clicking it. In the drop-down menu, click **"Remove device"** with the left mouse button.

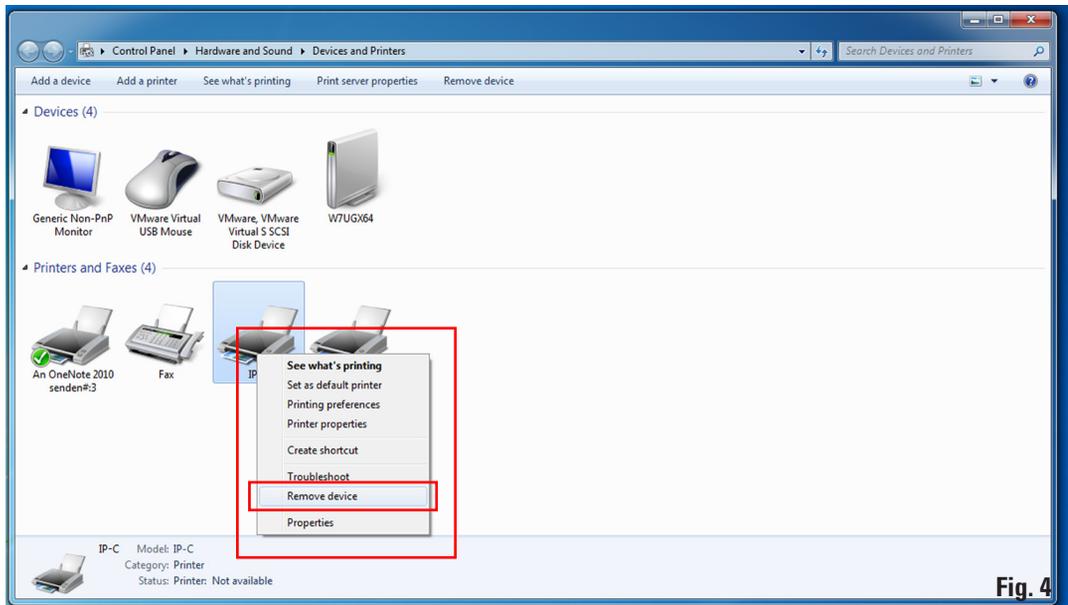


Fig. 4

## 2. Windows 7 (32-bit and 64-bit)

### 2.2 Uninstalling the IP printer (continued)

Click **"Yes"** to confirm the system message.



**Close all open windows and restart the computer.**

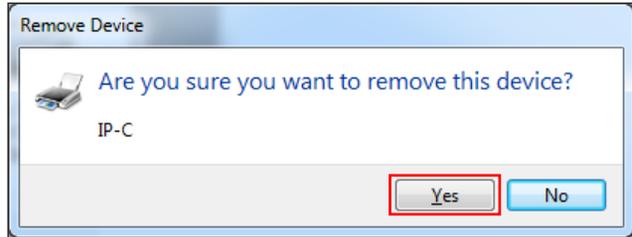


Fig. 5



**Before restarting, save your current work to prevent data loss.**

### 2.3 Uninstalling the IP printer driver

After deleting the printer icon and restarting the computer, any printer, such as **"Microsoft XPS"** (1), can be selected with the right mouse button. The **"Print server properties"** menu (2) appears in the system menu bar. Open this menu item by clicking it.

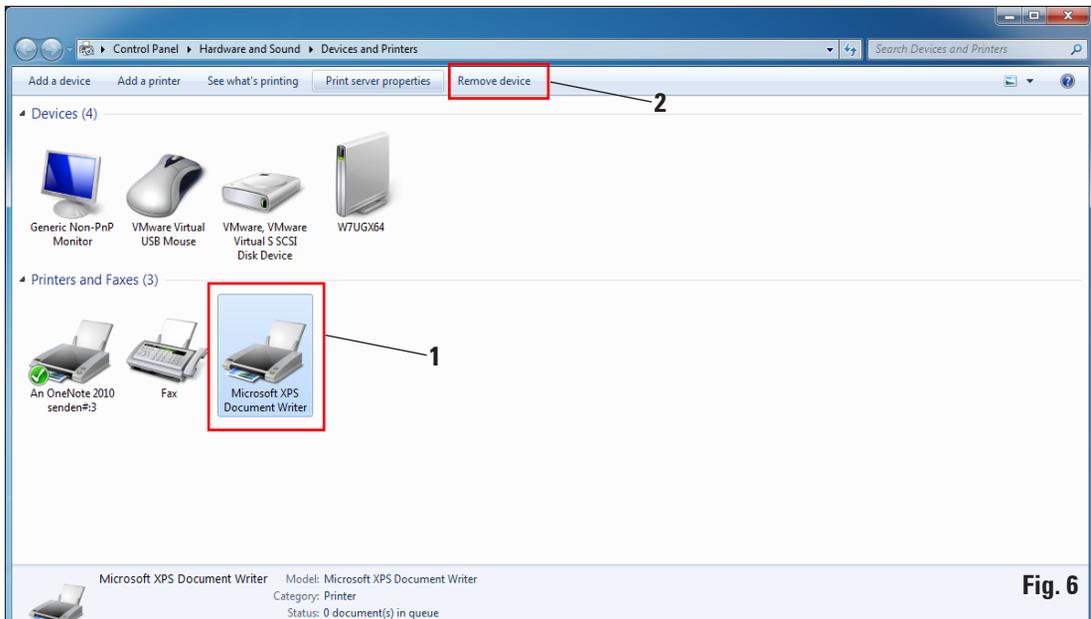


Fig. 6

### 2.3 Uninstalling the IP printer driver (continued)

In the **"Print Server Properties"** menu select the **"Drivers"** tab (1) and select the printer driver, for example, IP-C (2). Delete the driver by clicking **"Remove..."** (3).

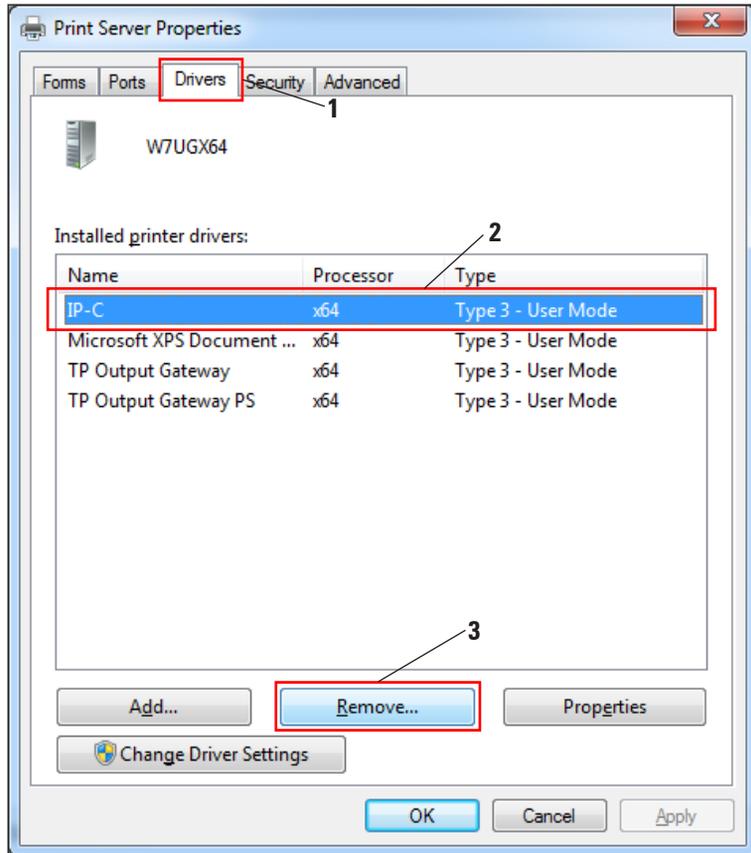


Fig. 7

## 2. Windows 7 (32-bit and 64-bit)

### 2.3 Uninstalling the IP printer driver (continued)

To update to a new driver version, **"Remove driver and driver package"** (2) has to be selected and confirmed with **"OK"** (3).

If only one IP printer is to be removed from among multiple installed IP printers, the selection **"Remove driver only"** (1) is sufficient.

Click **"Yes"** to confirm the system message (Fig. 9).

Click **"Remove"** in the following window (Fig. 10). After successful deletion, close this window by clicking **"OK"** (Fig. 11).

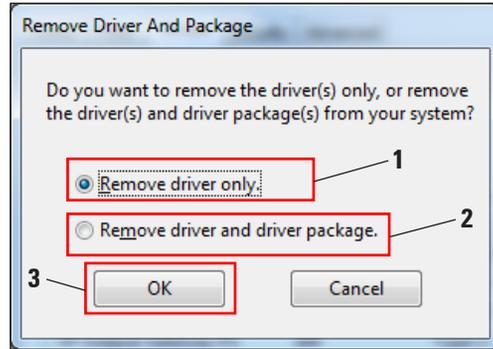


Fig. 8

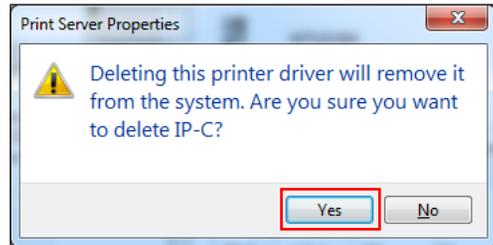


Fig. 9

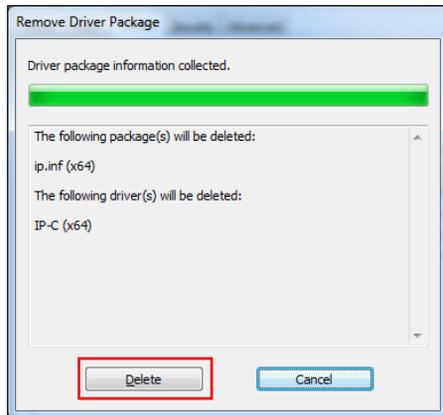


Fig. 10

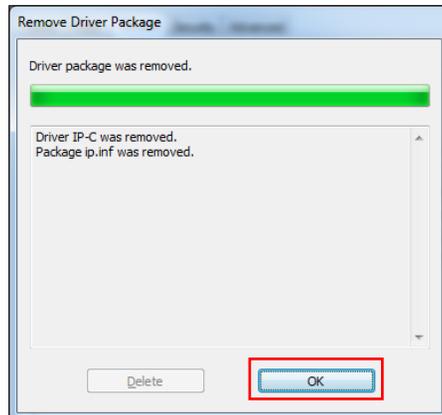


Fig. 11



**Close all open windows and restart the computer.**



**Before restarting, save your current work to prevent data loss.**

### 2.3 Uninstalling the IP printer driver (continued)

Close the "Print Server Properties" window to finish the uninstallation.

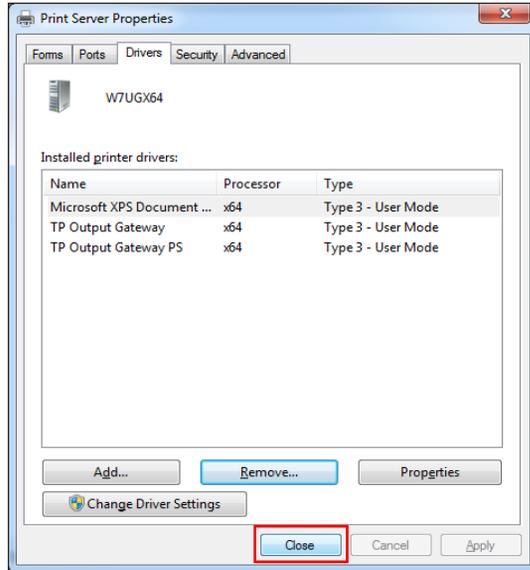


Fig. 12

### 2.4 Creating the printer directory and installing the help files

In the second part of the installation, the printer driver and help files are saved in the "C:\CSPrinter" directory.

Go to the Leica Biosystems website and download the latest driver file "**Leica 64-bit IP Driver**" for the Windows 7 64-bit operating system or "**Leica 32-bit IP Driver**" for the Windows 7 32-bit operating system, or use the corresponding file from the CD accompanying the printed Instructions for Use.



We recommend always checking the Leica Biosystems website to see whether a newer IP printer driver is available (see Chap. 2.4.1).

## 2. Windows 7 (32-bit and 64-bit)

### 2.4.1 Downloading the IP printer driver from the Leica Biosystems website

- Open [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com) in your browser and select the **"Products"** category,
- select **"Specimen identification"**,
- select either **"IP C"** or **"IP S"**,
- click **"Downloads"** and scroll down to the item **"Software Release Notes"**,
- select the driver necessary for your operating system from the drivers available,
- right-click the corresponding file and select **"Save as..."**,
- download the file and save it in a suitable folder on the computer's hard drive.

### 2.5 Installing the printer driver

Start the installation of the printer driver by double-clicking the saved driver software or the corresponding file on the CD (1).

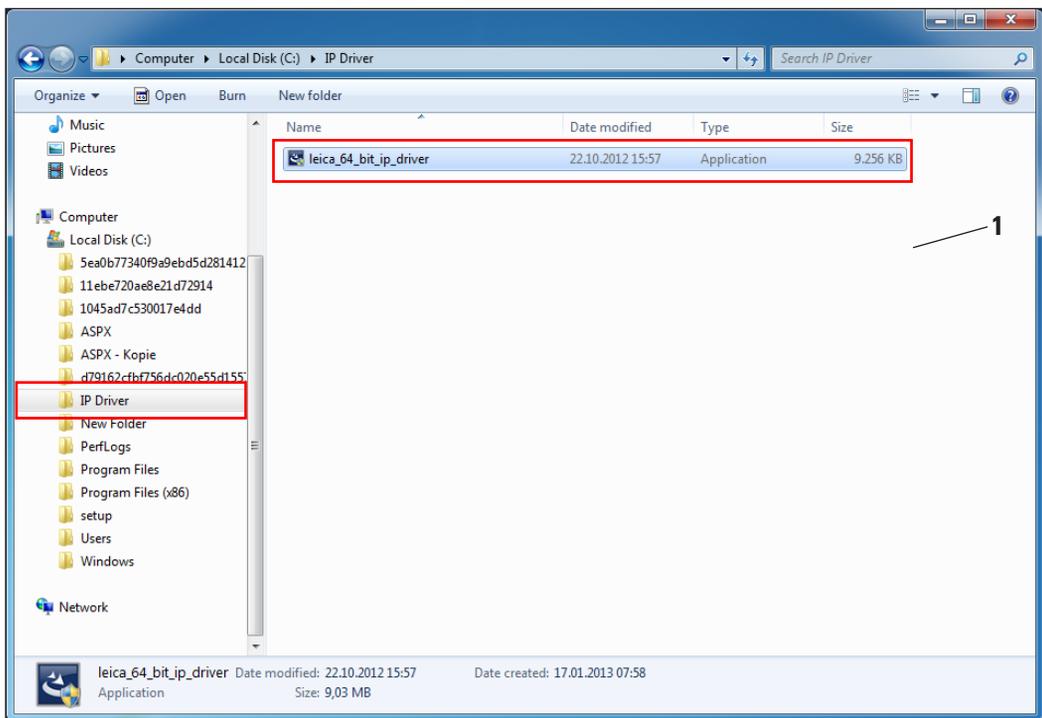


Fig. 13

### 2.5 Installing the printer driver (continued)

Click **"Yes"** (Fig. 14, 64-bit) to confirm the security message or **"Run"** (Fig. 15, 32-bit) to carry out the installation.

Message for Windows 7 64-bit

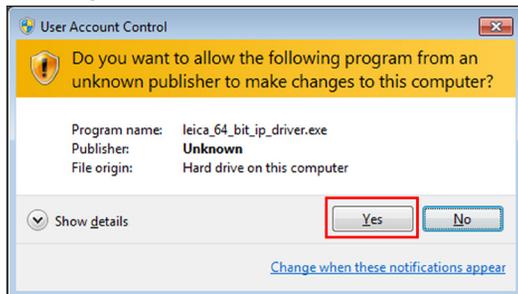


Fig. 14

Message for Windows 7 32-bit



Fig. 15

To confirm having the **"InstallShield Wizard"** perform the installation, click **"Next"**.

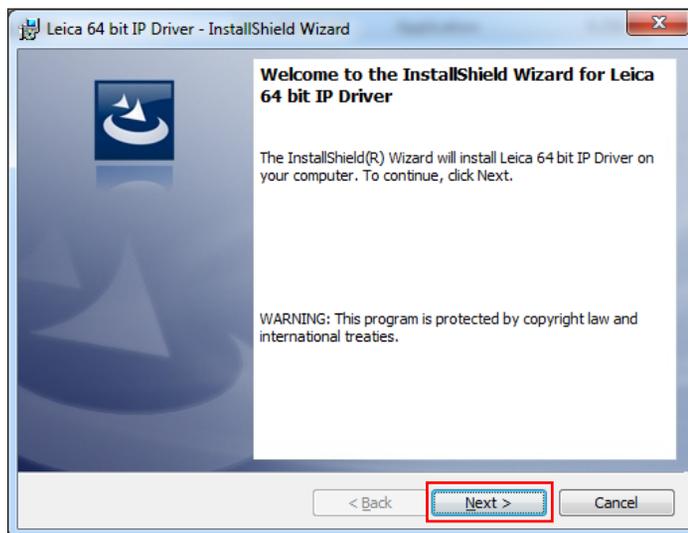


Fig. 16

## 2. Windows 7 (32-bit and 64-bit)

### 2.5 Installing the printer driver (continued)

Confirm installation on drive "C:\\" by clicking the **"Next"** button.

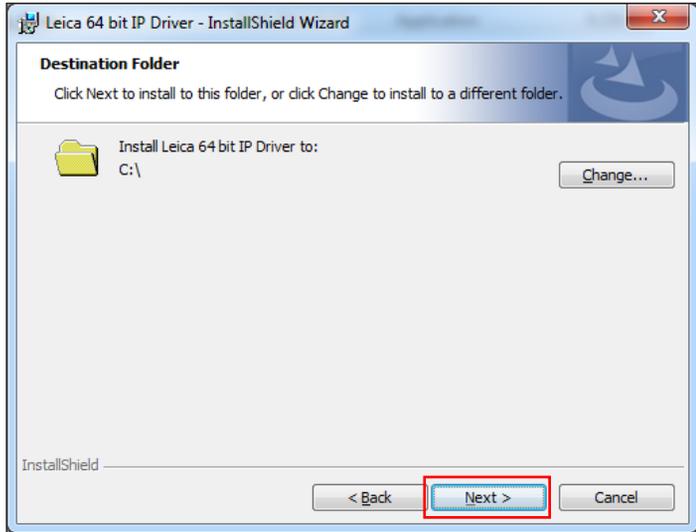


Fig. 17



**We recommend not altering the installation path!**

Click **"Install"** to start the installation.

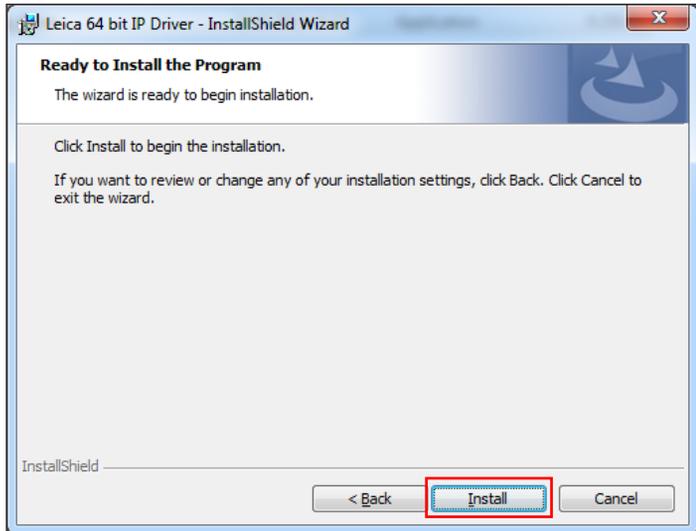


Fig. 18

### 2.5 Installing the printer driver (continued)

The installation was carried out successfully.

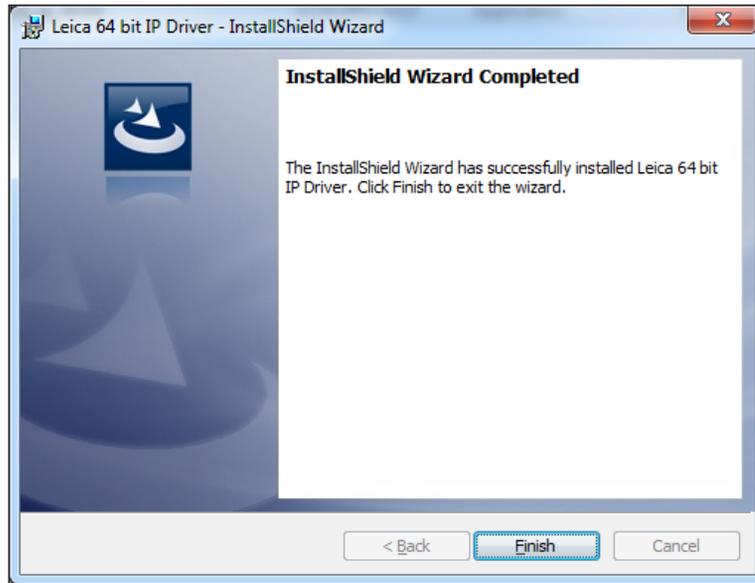


Fig. 19

After successful installation of the driver, installation of the printer begins automatically. Continue with the installation as described in the following [Chapter 2.6](#).

The "**InstallShield Wizard Completed**" message shown in [Fig. 19](#) may sometimes be covered by [Fig. 20](#).



**Do not yet close the "InstallShield Wizard Completed" message ([Fig. 19](#)). The printer directory was successfully created under "C:\CSPrinter".**

## 2. Windows 7 (32-bit and 64-bit)

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### 2.6 Printer installation



Installation step 3 (see Chap. 1.1) cannot be carried out without previous installation of the printer directory.

Installation step 3 starts automatically after the printer directory has been created in installation step 2 (see Chap. 1.1).

The "Add Printer" menu appears. Click "Add a local printer".

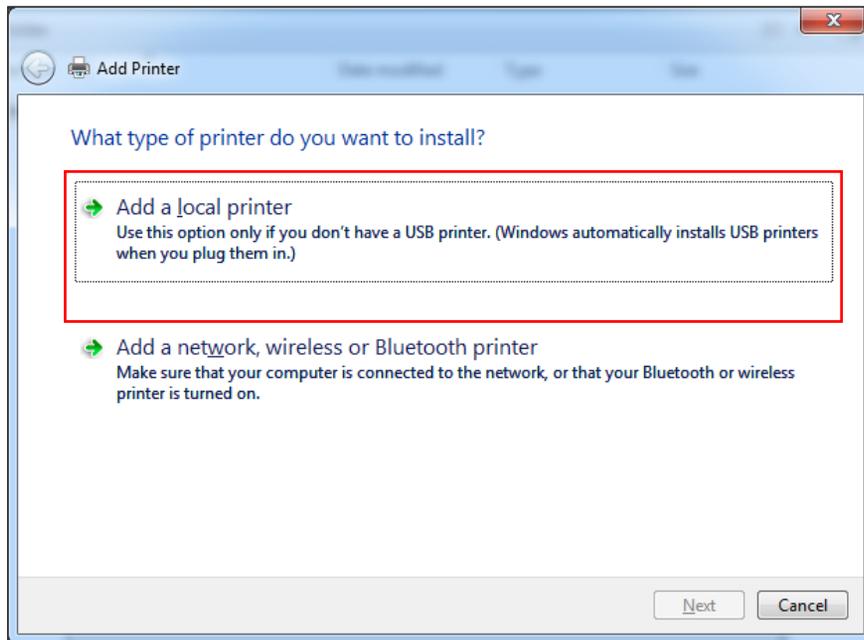


Fig. 20

### 2.6 Printer installation (continued)

Select **"Use an existing port"** (for example, COM3) and confirm your selection by clicking **"Next"**.

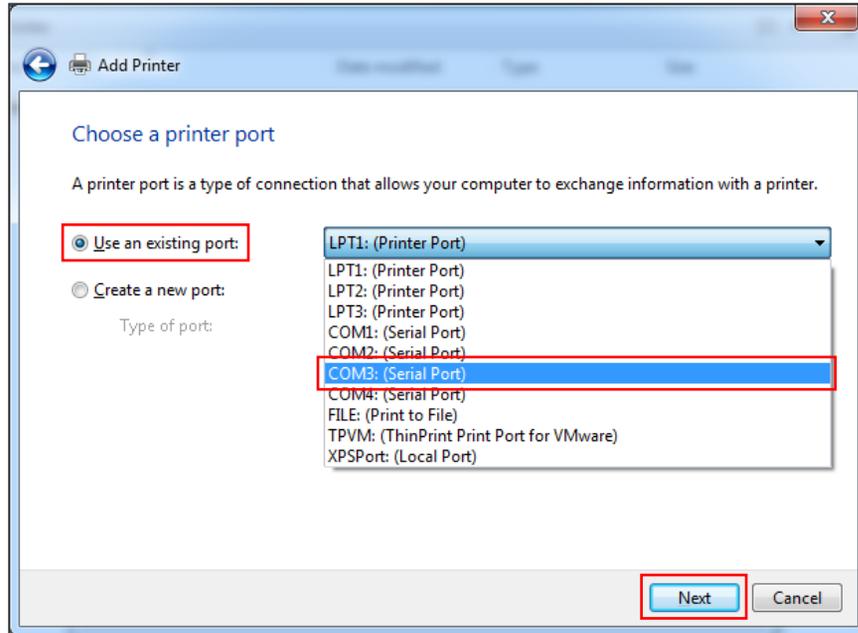


Fig. 21



The IP-S/IP-C printers have to be installed on a free COM port. A suitable COM port can be found under Control Panel/Device Manager under Ports (COM & LPT1). If an RS-232 port is lacking, a tested Windows 7 USB to RS-232 converter (serial to USB) must be installed. This adapter is not available in the printer's scope of delivery and has to be purchased from a specialist shop.

## 2. Windows 7 (32-bit and 64-bit)

### 2.6 Printer installation (continued)

Select the printer driver to be installed as follows:

Click **"Have Disk..."** button in the **"Add Printer"** window.



**NEVER** select an IP printer driver via the **"Manufacturer/Printers"** selection fields, because the outdated versions can also be shown here and selected (for example, Version 2.6.0.2 from 2011-12-12, which is no longer valid!).

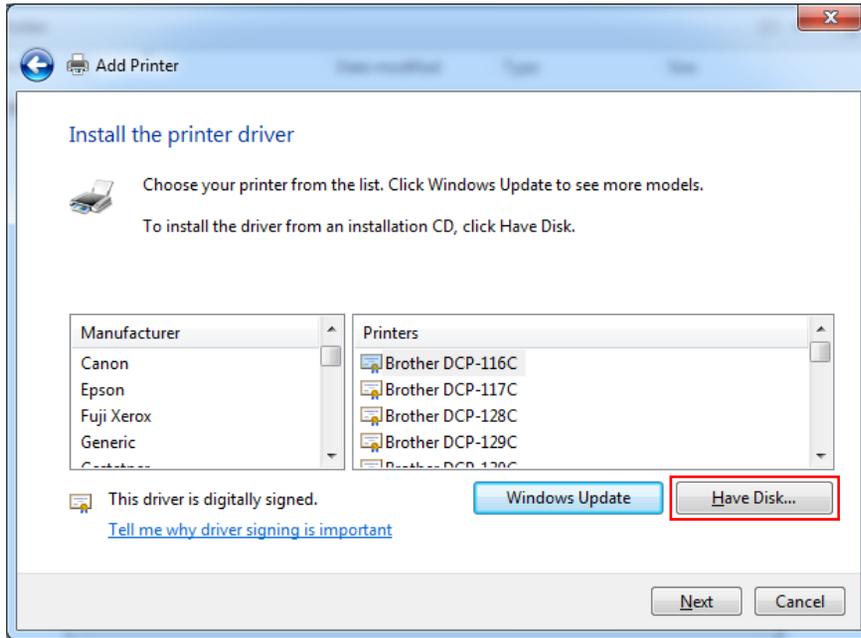


Fig. 22

In the following window (**"Install from Disk"**), click **"Browse..."**.

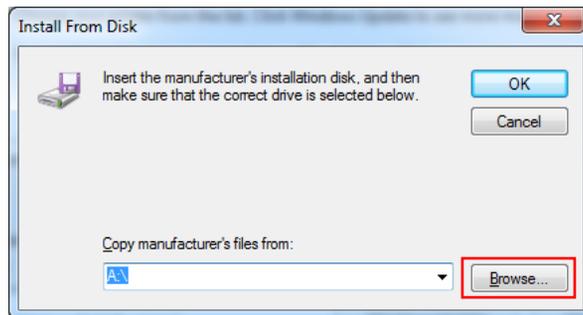


Fig. 23

### 2.6 Printer installation (continued)

Navigate in Explorer to the "**C:\CSPrinter\2V6\Leica\IP.2v6.e**" folder to install the 64-bit driver or to the "**C:\CSPrinter\2V6\Leica\IP.2v5.e**" folder to install the 32-bit driver.

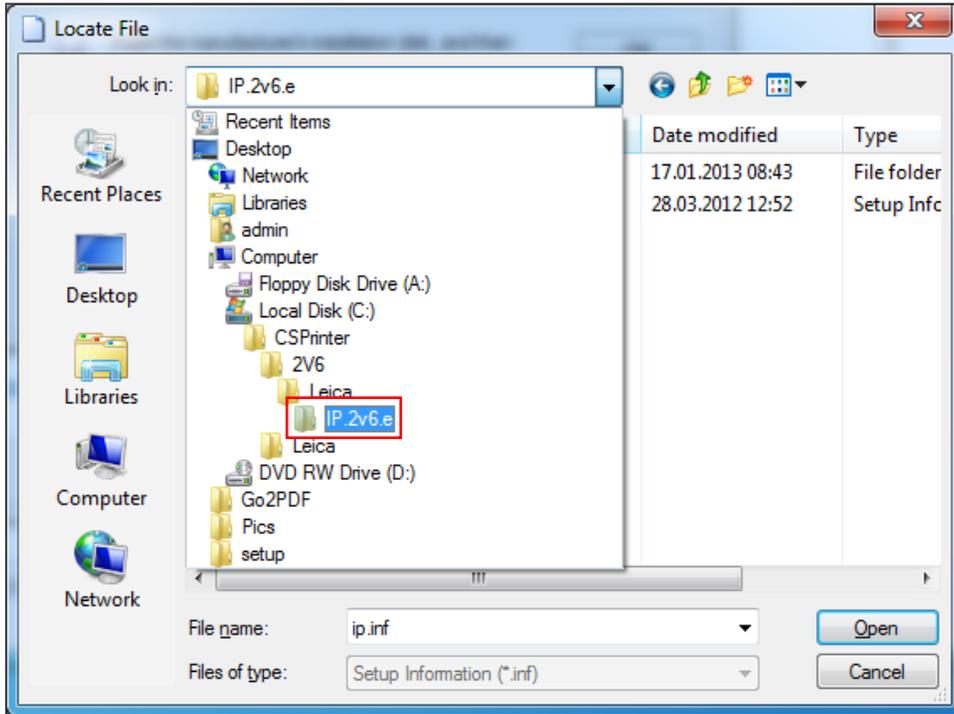


Fig. 24

## 2. Windows 7 (32-bit and 64-bit)

### 2.6 Printer installation (continued)

Select the "ip.inf" driver file (1) and confirm the selection by clicking "Open" (2).



In Windows XP or Windows 7 the file extensions, such as ".inf", are usually hidden.

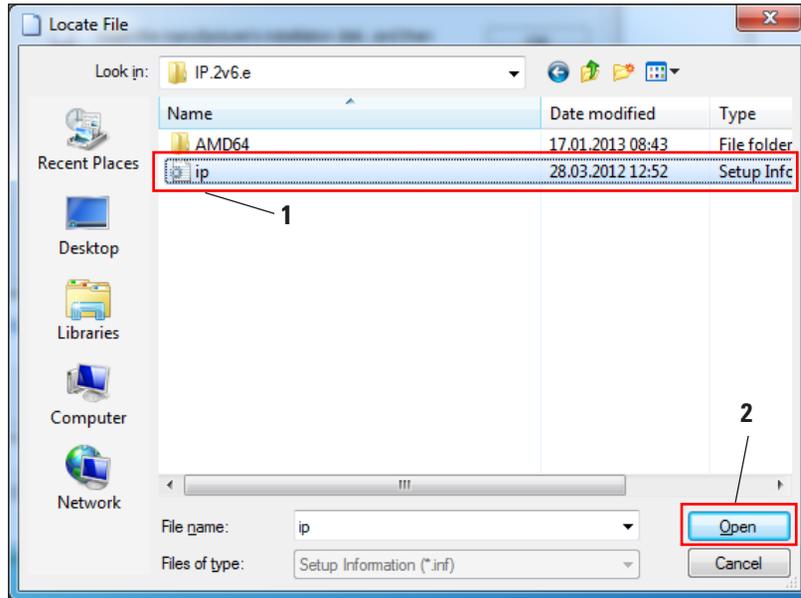


Fig. 25

Click "OK".

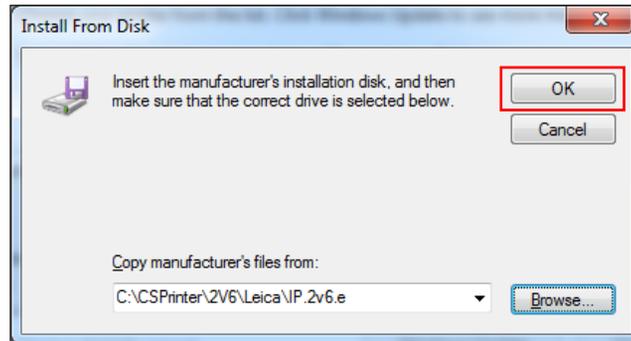


Fig. 26

### 2.6 Printer installation (continued)

Select the IP printer to be installed ("**IP-S**" or "**IP-C**") (1) and confirm your selection by clicking "**Next**" (2).

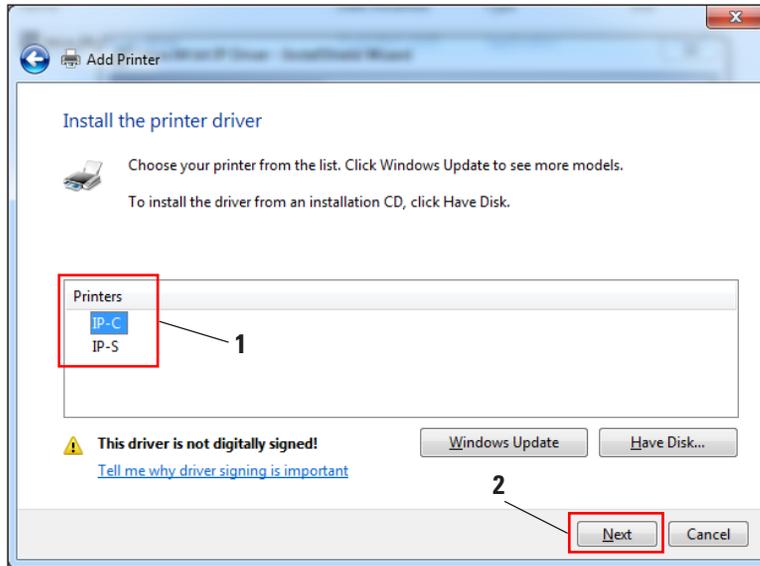


Fig. 27



If multiple IP printers are to be operated on a computer, the respective driver for these printers must also be installed under "Start/Devices and Printers/Add Printer" by selecting (Fig. 4) "Add a local printer" (Fig. 20).

## 2. Windows 7 (32-bit and 64-bit)

### 2.6 Printer installation (continued)

Use the suggested printer name (for example, "IP-C") (1) and confirm the selection with "Next" (2).



If multiple IP C printers are installed, "IP-C 1" or "IP-C 2", for example, can be entered here.

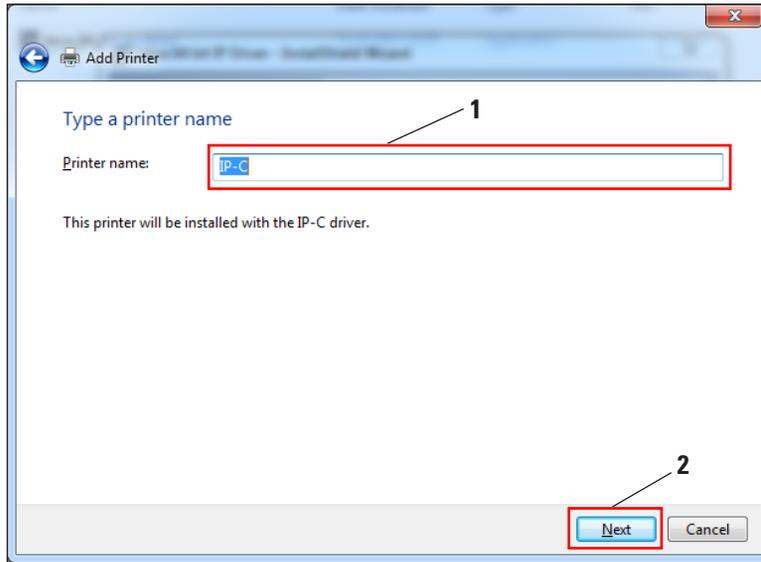


Fig. 28



The first time an IP printer is installed, the security message shown in Fig. 29 appears.

To start the installation, confirm the Windows security message by clicking "Install this driver software anyway".

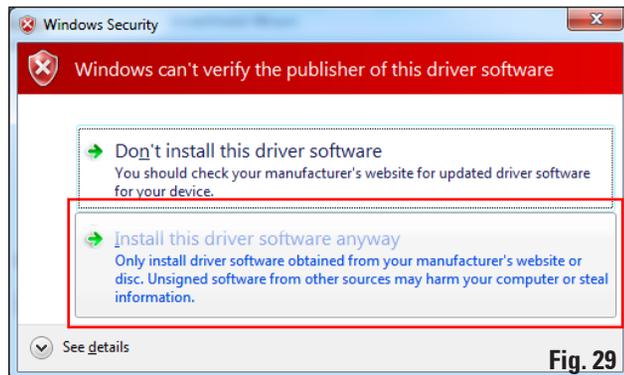


Fig. 29

### 2.6 Printer installation (continued)

After the installation has been successfully completed, the **"Printer Sharing"** dialog appears. Select the **"Do not share printer"** (1) option and confirm your selection by clicking **"Next"** (2).



If the printer is to be shared in a network via an Ethernet adapter, please consult your local IT administrator.

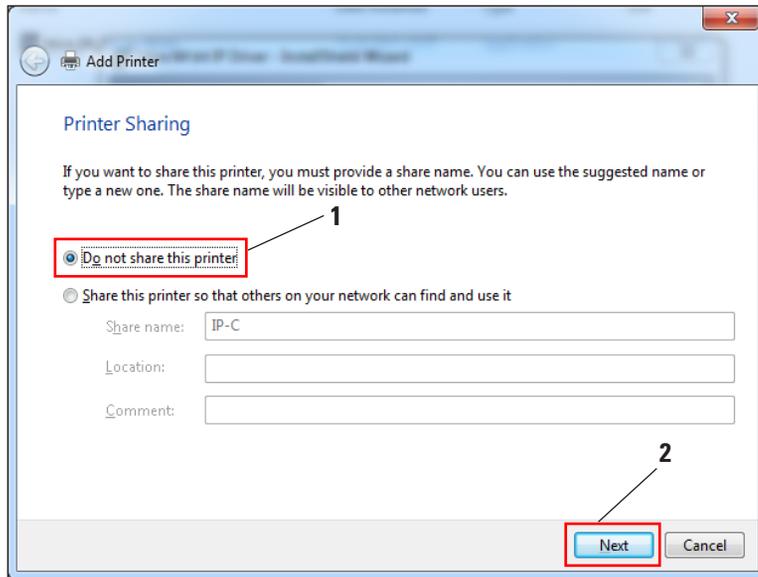


Fig. 30

Quit the **"InstallShield Wizard"** (Fig. 19) by clicking **"Finish"**.

## 2. Windows 7 (32-bit and 64-bit)

### 2.6 Printer installation (continued)

Close the **"You've successfully added IP-C"** message with **"Finish"** (1).



Select the **"Set as the default printer"** option (2) only if no other printer is operated on this computer.

#### **"Print a test page"**

With **"Print a test page"** (3) you can test whether communication between the computer and printer functions properly.



Due to the size of the printable surface of a specimen slide or a cassette, no printout will be discernible. The test print merely indicates that the connection between printer and computer has been set up correctly.

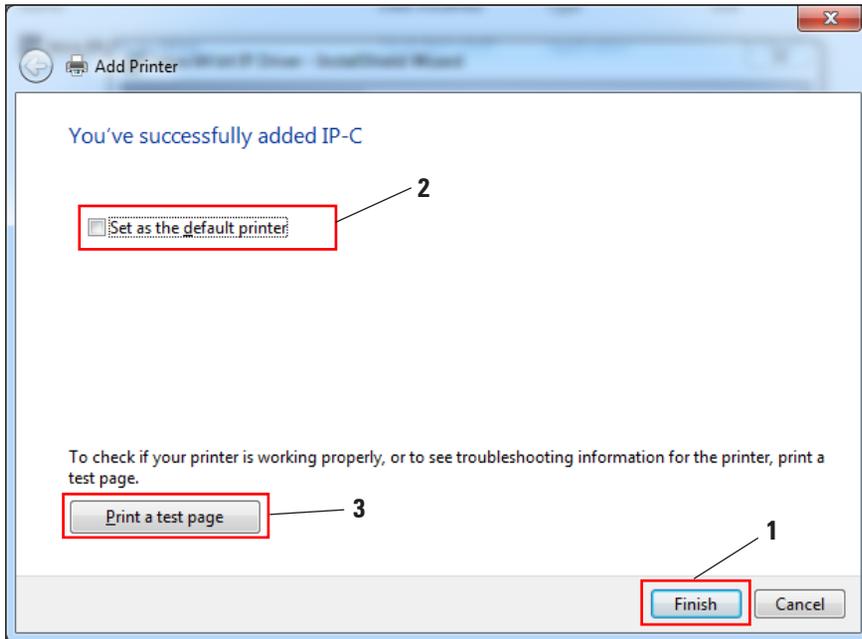


Fig. 31



For installation of the Windows 7 32-bit driver, the corresponding message differs from the one shown here in [Fig. 31](#).

Click **"Finish"** to complete the installation. Close all applications and restart the computer.

### 2.7 Version check

Open **"Start/Devices and Printers"** and select a printer (1) (for example, "IP-C"). Click **"Print server properties"** (2) in the upper menu bar.

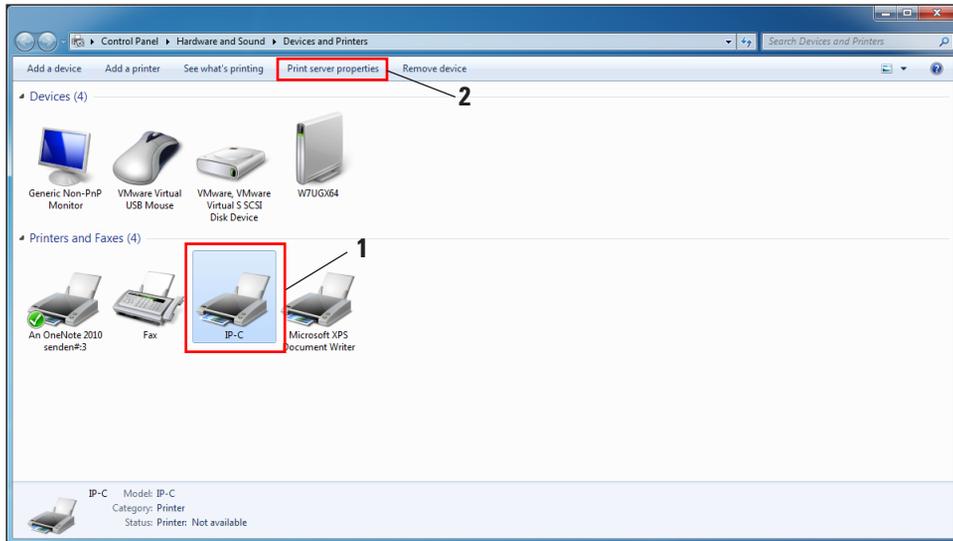


Fig. 32

In the **"Print Server Properties"** menu, select the **"Drivers"** tab (1), select the IP printer just installed (2) and click **"Properties"** (3).

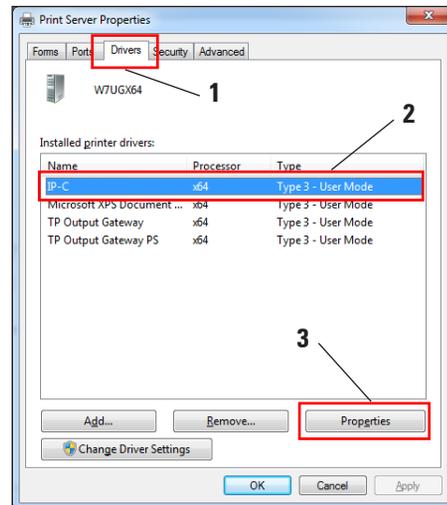


Fig. 33

## 2. Windows 7 (32-bit and 64-bit)

### 2.7 Version check (continued)

Select the **"Dependent File" "csprt.DLL" (1)** in the **"Driver Properties"**. Open the file by clicking **"Properties" (2)**.

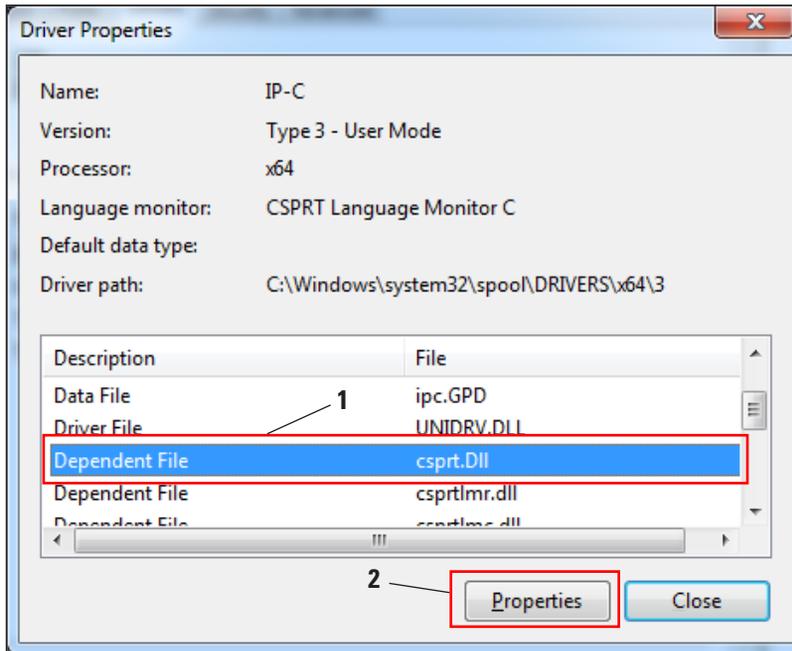


Fig. 34

### 2.7 Version check (continued)

In the "**csprt.DLL Properties**", select the "**Details**" tab (1). The installed "**Product version**" of the 64-bit driver must be displayed as Version **2.6.0.3** (2). If the 32-bit driver was installed, the correct "**File version**" is **2.5.0.3**.

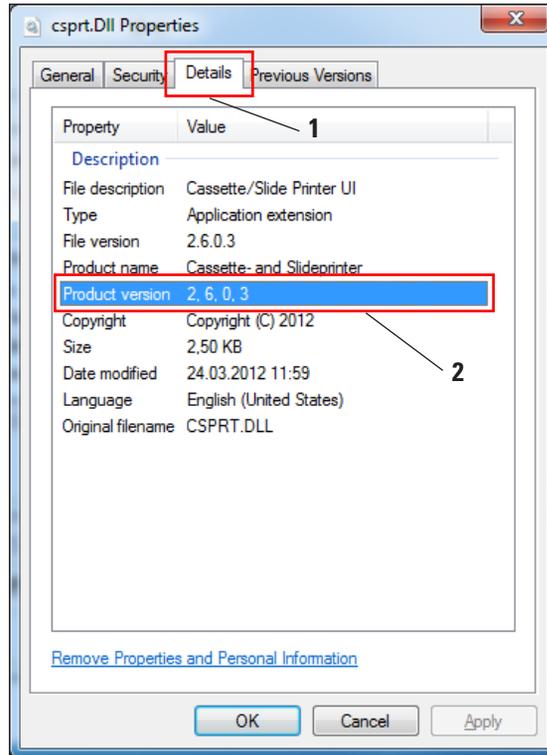


Fig. 35



**If Version 2.6.0.3 (64-bit) or 2.5.0.3 (32-bit) is not displayed, the driver has to be uninstalled and reinstalled.**

If the corresponding driver was correctly installed, close the "**csprt.DLL Properties**" window by clicking "**OK**". Close all windows that are still open to return to the desktop.

### 3. Windows XP (32-bit)

#### 3.1 Uninstalling the existing IP printer and printer driver



Ensure that no print job is in the buffer of the printer driver and no message is sent from the printer to the computer.

The description in Chapter 3.1 applies only to the new printer driver Versions 2.5 for Windows XP (32-bit).

Under "Start/Settings/Printers and Faxes" or "Start/Printers and Faxes" (1), select the "IP C" or "IP S" printer (2), right-click and click "Delete" (3).

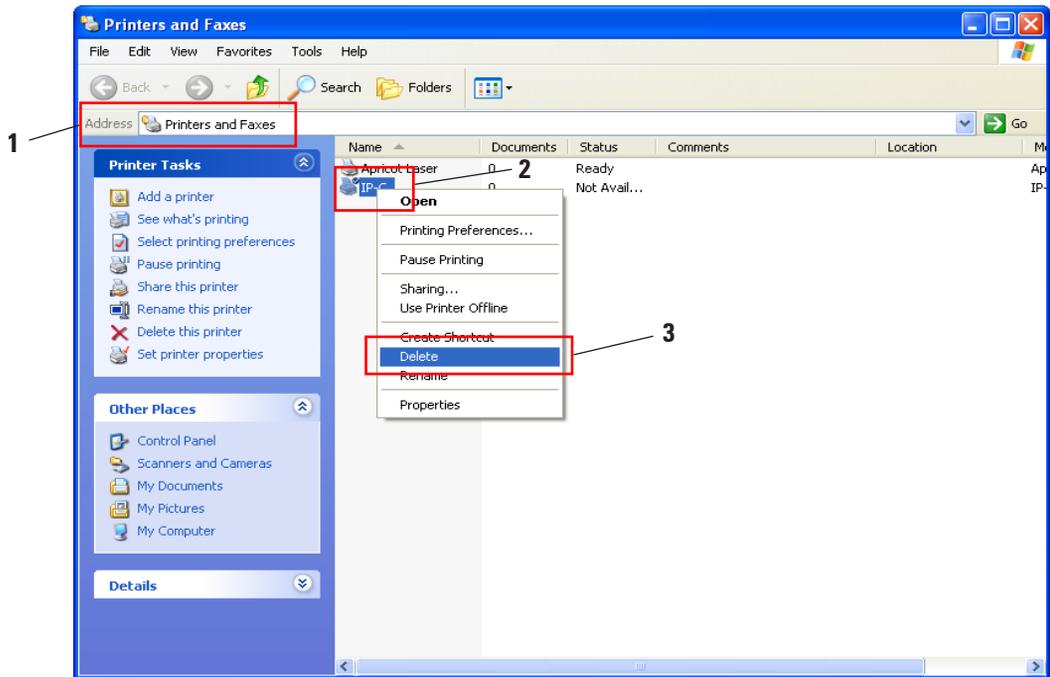


Fig. 36

#### 3.1 Uninstalling the existing IP printer and printer drivers (continued)

Close the "Printers and Faxes" window and restart the computer.



Before restarting, save your current work to prevent data loss.

After restarting, reopen "Start/Settings/Printers and Faxes" or "Start/Printers and Faxes" (1). Via "File", select the "Server Properties" menu item to continue with uninstalling the IP printer driver.

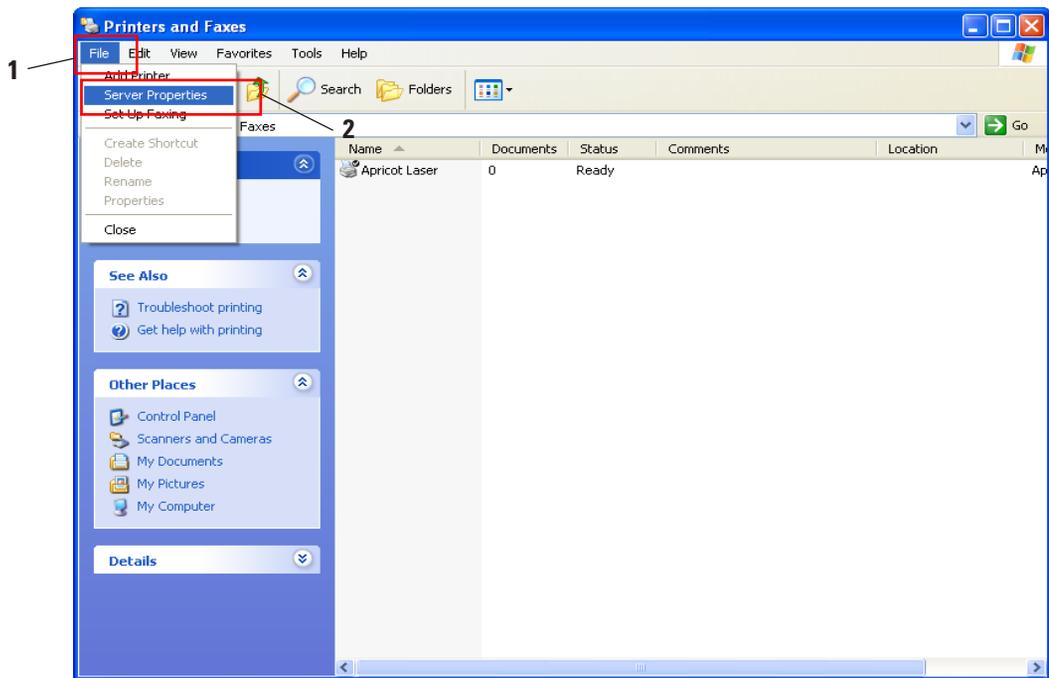


Fig. 37

### 3. Windows XP (32-bit)

#### 3.1 Uninstalling the existing IP printer and printer drivers (continued)

In the "Print Server Properties" menu select the "Drivers" tab (1) and select the printer driver, for example, "IP-C" (2). Delete the driver by clicking "Remove" (3).

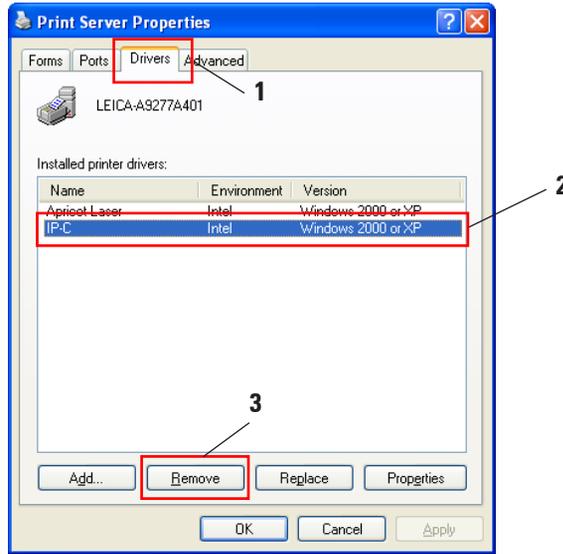


Fig. 38

Confirm the system message by clicking "Yes" and finish the uninstallation.

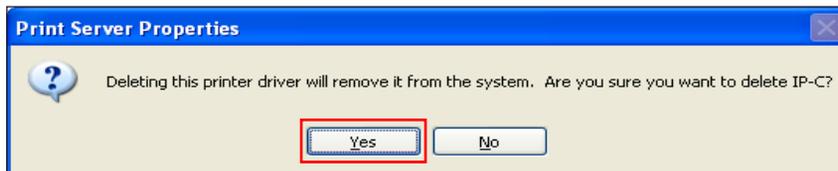


Fig. 39

Close the "Printers and Faxes" window and restart the computer.



Before restarting, save your current work to prevent data loss.

### 3.2 Creating the printer directory and installing the help files

In the second part of the installation, the printer driver and help files are saved in the "**C:\CSPrinter**" directory.

Go to the Leica Biosystems website and download the latest driver file "**Leica 32-bit IP Driver**" for the Windows XP 32-bit operating system, or use the corresponding file from the CD accompanying the printed Instructions for Use.



We recommend always checking the Leica Biosystems website to see whether a newer IP printer driver is available (see [Chap. 3.2.1](#)).

#### 3.2.1 Downloading the IP printer driver from the Leica Biosystems website

- Open [www.LeicaBiosystems.com](http://www.LeicaBiosystems.com) in your browser and select the "**Products**" category,
- select "**Specimen identification**",
- select either "**IPC**" or "**IPS**",
- click "**Downloads**" and scroll down to the item "**Software Release Notes**",
- select the driver necessary for your operating system from the drivers available,
- right-click the corresponding file and select "**Save as...**",
- download the file and save it in a suitable folder on the computer's hard drive.

## 3. Windows XP (32-bit)

### 3.3 Installing the printer driver

Start the installation of the printer driver by double-clicking the saved driver software or the corresponding file on the CD (1).

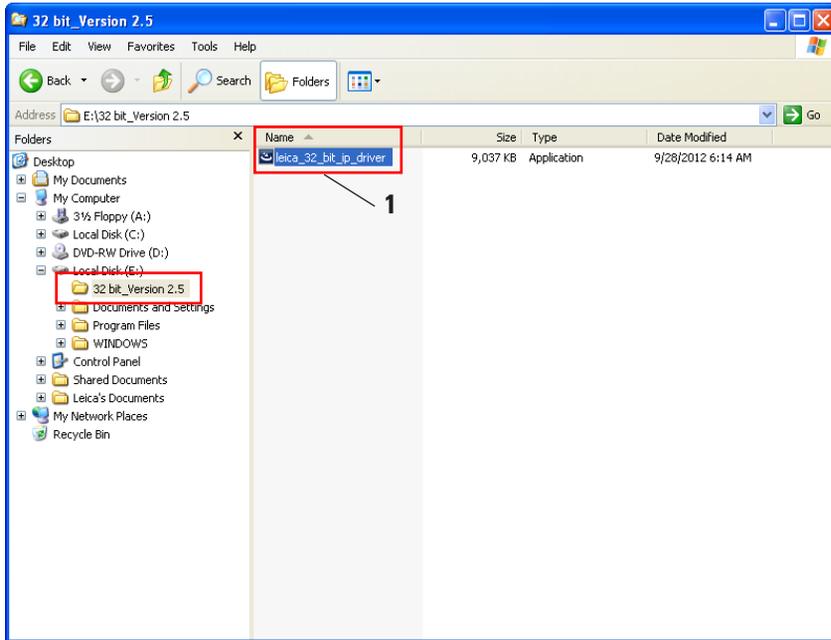


Fig. 40

Click "Run" to confirm the security warning.



Fig. 41

#### 3.3 Installing the printer driver (continued)

To confirm having the "InstallShield Wizard" perform the installation, click "Next".

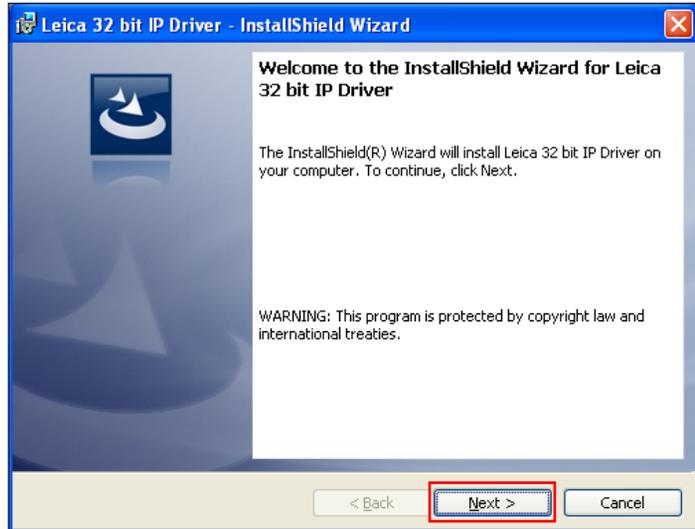


Fig. 42

Confirm installation on drive "C:\" by clicking the "Next" button.

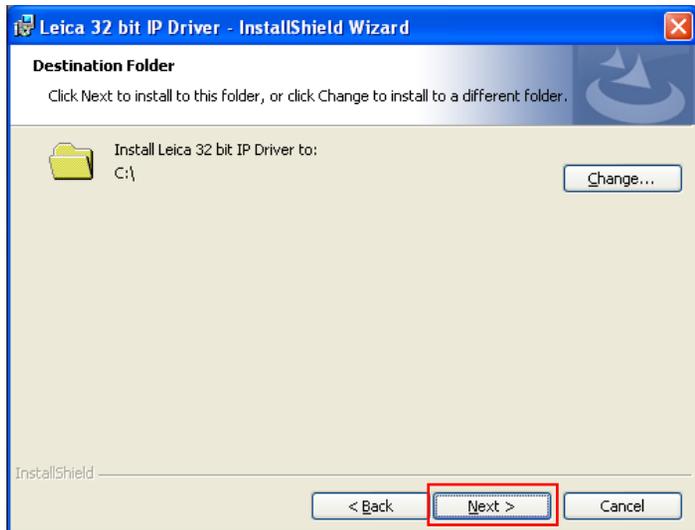


Fig. 43



**We recommend not altering the installation path!**

## 3. Windows XP (32-bit)

### 3.3 Installing the printer driver (continued)

Click **"Install"** to start the installation.

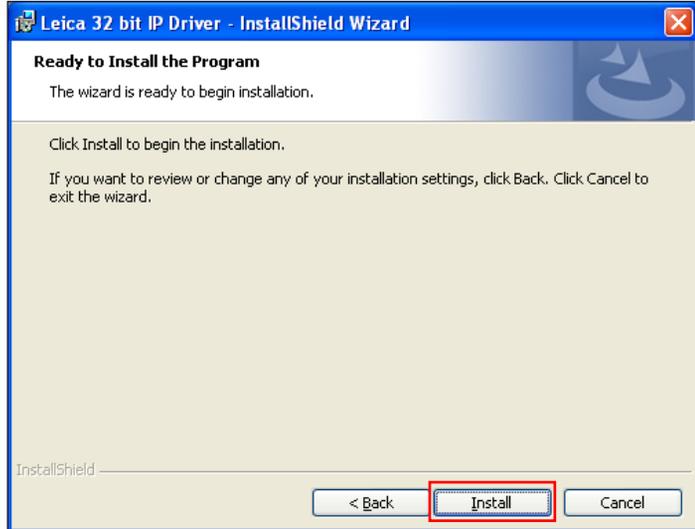


Fig. 44

After successful installation of the driver, installation of the printer begins automatically. Continue with the installation as described in the following [Chapter 3.4](#).

The **"InstallShield Wizard Completed"** message shown in [Fig. 45](#) may sometimes be covered by [Fig. 46](#).

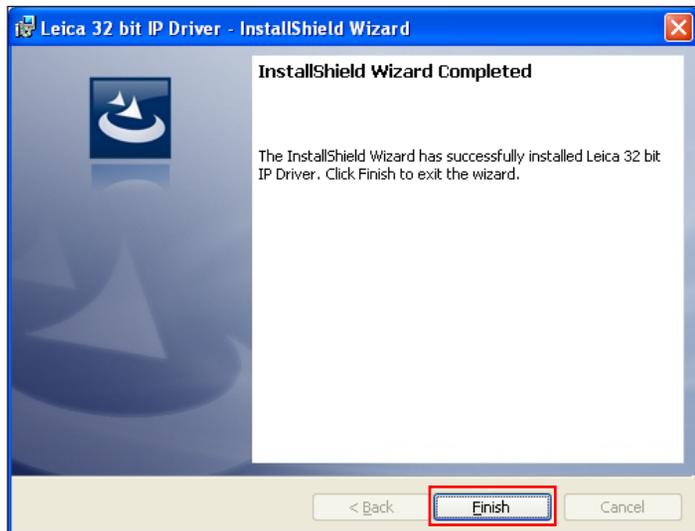


Fig. 45



Do not yet close the **"InstallShield Wizard Completed"** message ([Fig. 45](#)). The printer directory was successfully created under **"C:\CSPrinter"**.

#### 3.4 Printer installation

When the **"InstallShield Wizard Completed"** message is displayed, the **"Printer Wizard"** starts simultaneously. Click **"Next"**.



Fig. 46



Do not yet close the "InstallShield Wizard Completed" message (Fig. 46).

The **"Local or Network Printer"** menu appears. Click **"Local printer attached to this computer"** (1) and then **"Next"** (2).

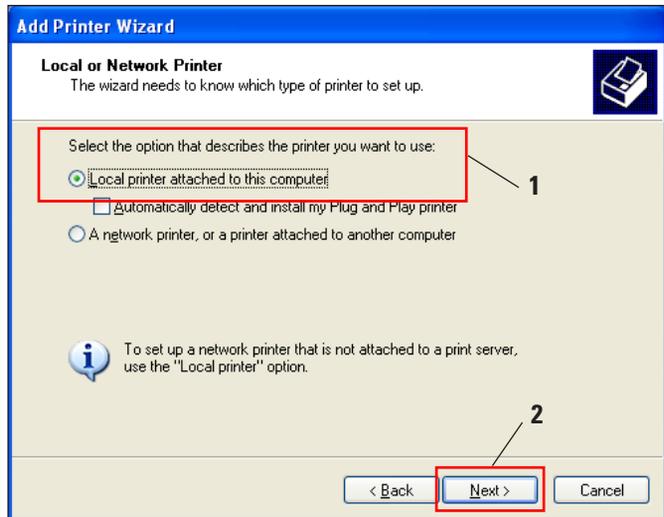


Fig. 47

### 3. Windows XP (32-bit)

#### 3.4 Printer installation (continued)

Click **"Use the following port:"** (1) and select, for example, COM3 (2) in the menu on the right. Confirm your selection by clicking **"Next"** (3).

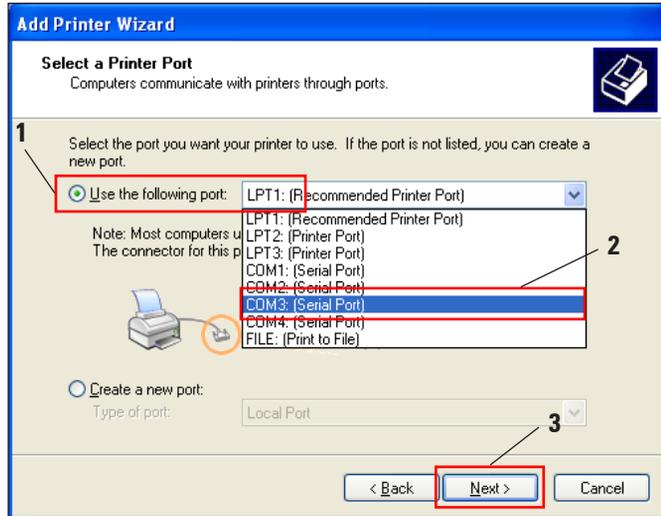


Fig. 48



The IP-S/IP-C printers have to be installed on a free COM port. A suitable COM port can be found under Control Panel/Device Manager under Ports (COM & LPT). If an RS-232 port is lacking, a tested Windows XP USB to RS-232 converter (serial to USB) must be installed. This adapter is not available in the printer's scope of delivery and has to be purchased from a specialist shop.

3.4 Printer installation (continued)

Select the printer driver to be installed as follows:

Click "Have Disk..." in the "Install Printer Software" window.



**NEVER select an IP printer driver via the "Manufacturer/Printers" selection fields, because the outdated versions can also be shown here and selected (for example, Version 2.6.0.2 from 2011-12-12, which is no longer valid!).**

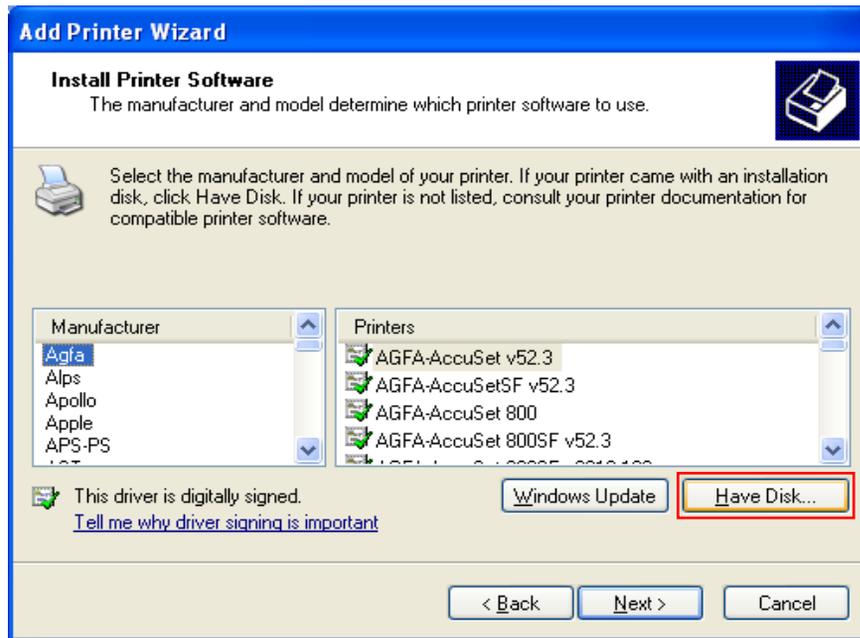


Fig. 49

In the following window ("Install from Disk"), click "Browse...".

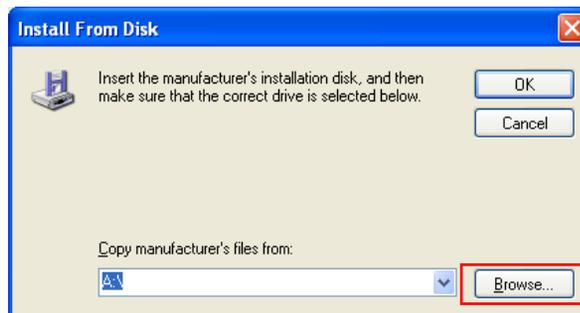


Fig. 50

### 3. Windows XP (32-bit)

#### 3.4 Printer installation (continued)

Navigate in Explorer to the folder "**C:\CSPrinter\2v5\Leica\IP.2v5.e**" (1), select the driver file "**ip.inf**" (2) and confirm your selection by clicking "**Open**" (3).

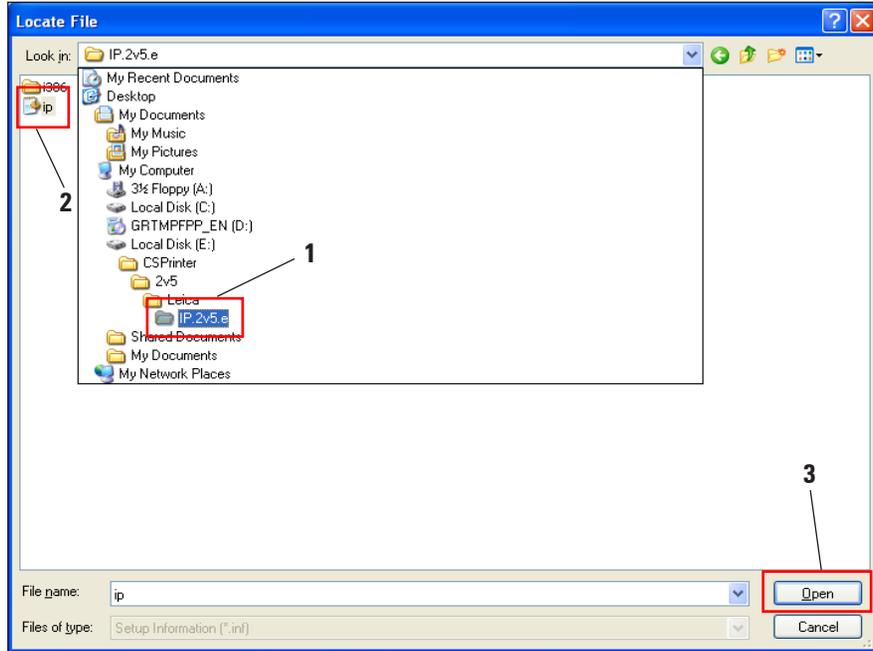


Fig. 51

Click "**OK**".

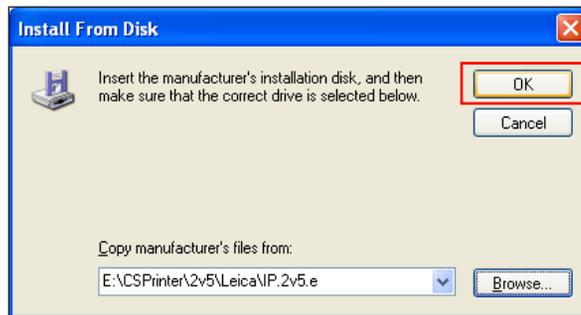


Fig. 52

### 3.4 Printer installation (continued)

Select the IP printer to be installed ("IP-S" or "IP-C") (1) and confirm your selection by clicking "Next" (2).

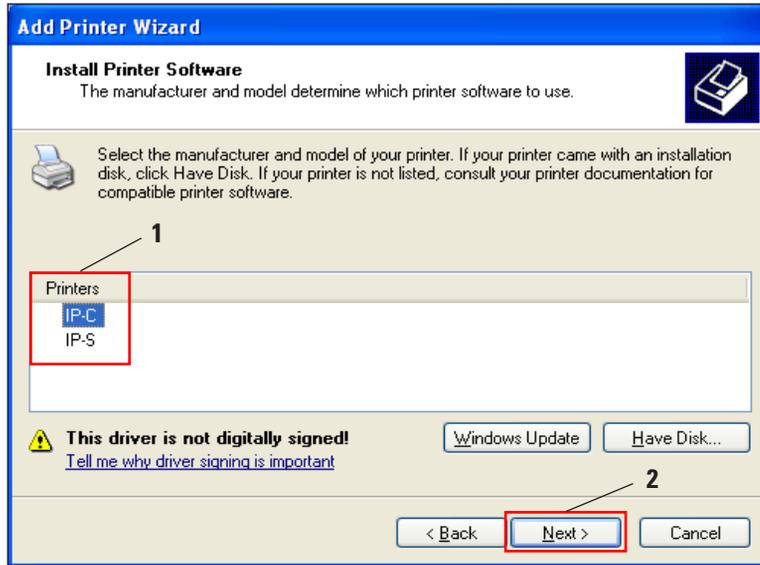


Fig. 53



If multiple IP printers are to be operated on a computer, the respective driver for these printers must also be installed under "Start/Settings/Printers and Faxes" using the "Add Printer" button (Fig. 36) and by selecting "Add local printer" (Fig. 47).

### 3. Windows XP (32-bit)

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#### 3.4 Printer installation (continued)

Use the suggested printer name (for example, "IP-C") (1) and confirm the selection with "Next" (2).



If multiple IP C printers are installed, "IP-C 1" or "IP-C 2", for example, can be entered here.

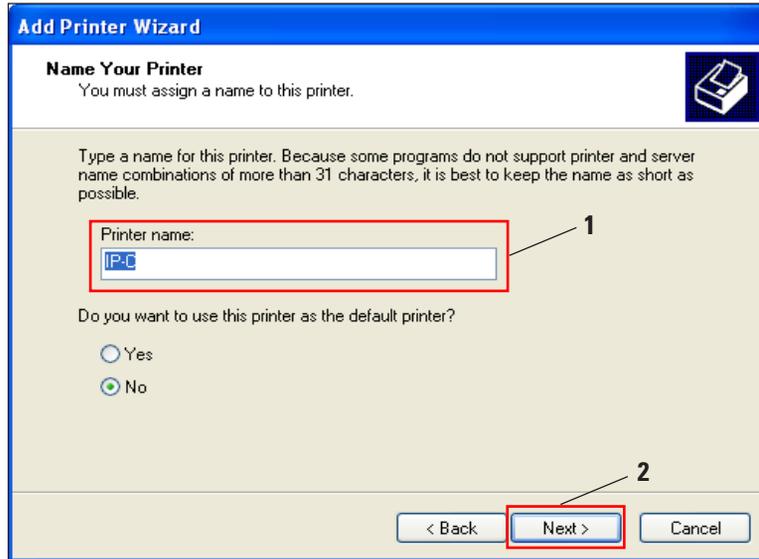


Fig. 54



Select the "Set as default printer" option only if no other printer is operated on this computer.

### 3.4 Printer installation (continued)

The "Printer Sharing" dialog appears in the next preparation step. Select the "Do not share this printer" option (1) and confirm your selection by clicking "Next" (2).



If the printer is to be shared in a network via an Ethernet adapter, please consult your local IT administrator.

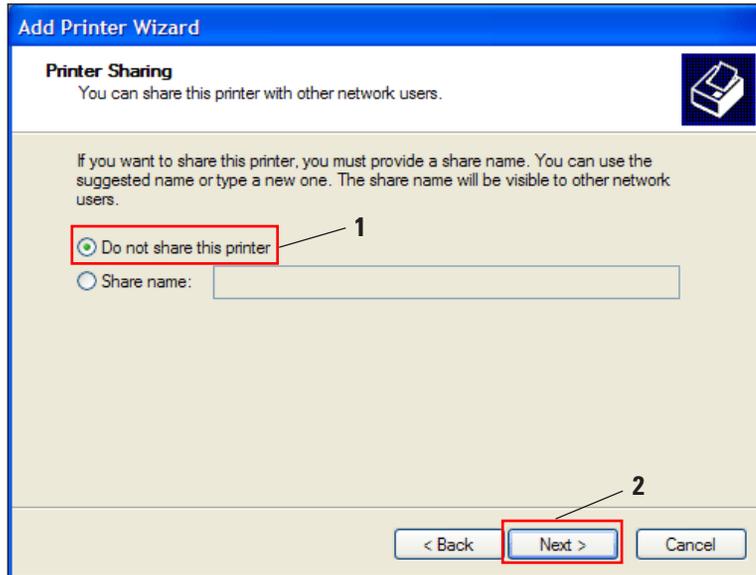


Fig. 55

### 3. Windows XP (32-bit)

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#### 3.4 Printer installation (continued)

With the **"Print a test page"** function in the last preparation step you can test whether communication between the computer and printer functions properly.

Under **"Do you want to print a test page?"** select **"Yes"** or **"No"** (1) and confirm your selection by clicking **"Next"** (2).

If you have selected **"Yes"**, a test print is performed after clicking **"Next"** (2).



Due to the size of the printable surface of a specimen slide or a cassette, no printout will be discernible. The test print merely indicates that the connection between printer and computer has been set up correctly.

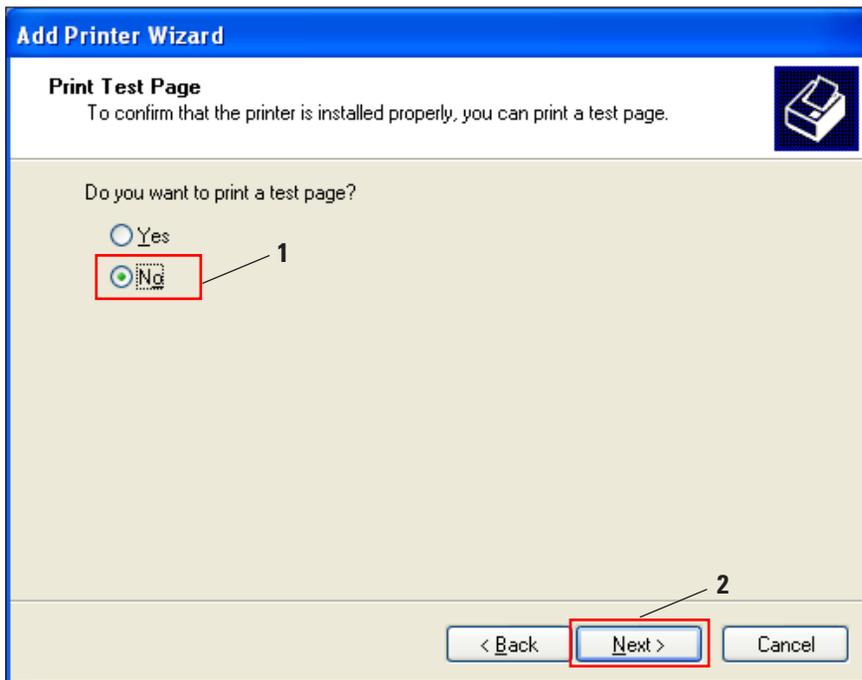


Fig. 56

#### 3.4 Printer installation (continued)

After all settings have been configured, click "**Finish**".

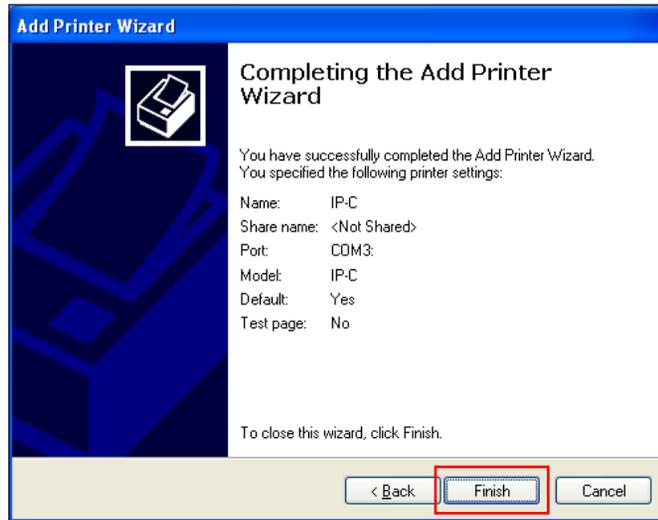


Fig. 57

To start the installation, confirm the Windows security message by clicking "**Continue installation**".



Fig. 58

### 3. Windows XP (32-bit)

#### 3.4 Printer installation (continued)

Click **"Finish"** to complete the installation.

Close all applications and restart the computer.

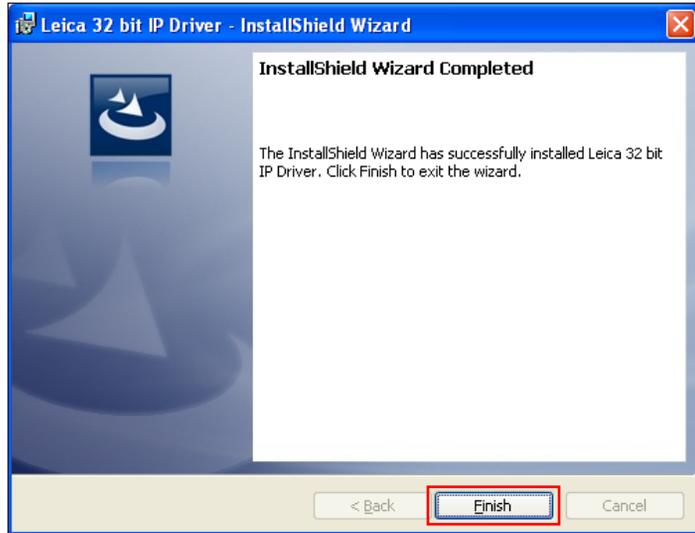


Fig. 59

#### 3.5 Version check

Open **"Start/Settings/Printers and Faxes"** or **"Start/Printers and Faxes"**.

Click **"File"** (1) and **"Print server properties"** (2) in the upper menu bar.

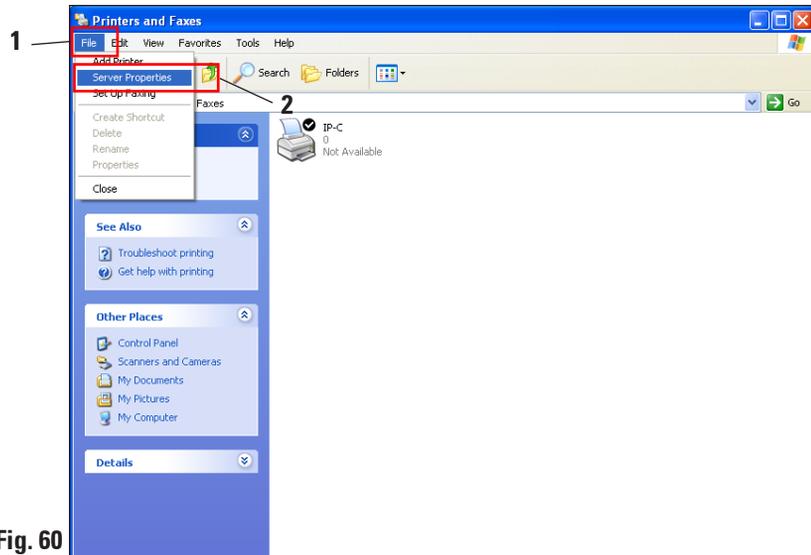


Fig. 60

3.5 Version check (continued)

In the **"Print Server Properties"** menu, click the **"Drivers"** tab (1), then select the newly installed IP printer (2) and click **"Properties"** (3).

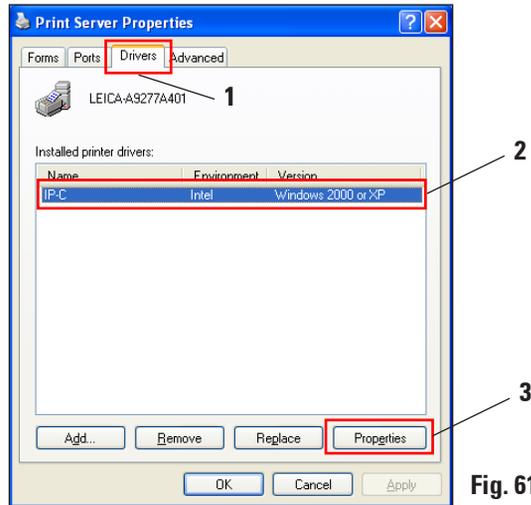


Fig. 61

Select the **"Dependent File"** **"csprt.DLL"** (1) in the **"Driver Properties"**. Open the file by clicking **"Properties"** (2).

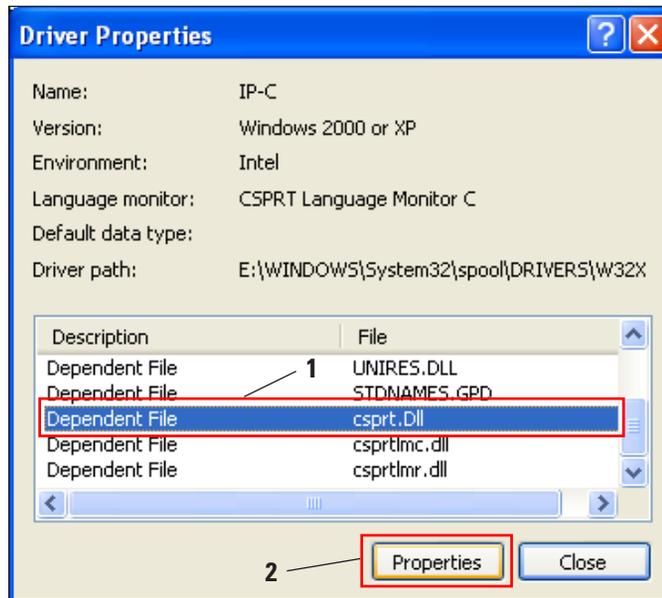


Fig. 62

### 3. Windows XP (32-bit)

#### 3.5 Version check (continued)

In the "**csprt.DLL Properties**" menu, click the "**Version**" tab (1) and select "**Product version**" (2) in the "**Item name**" field. **2,5,0,3** (3) must be displayed in the "**Value**" field.

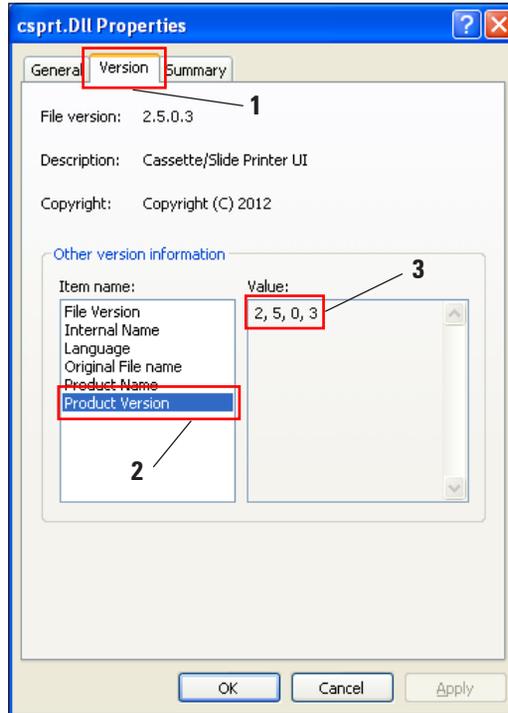


Fig. 63



**If Version 2.5.0.3 is not displayed, the driver has to be uninstalled and reinstalled.**

If the corresponding driver was correctly installed, close the "**csprt.DLL Properties**" window by clicking "**OK**". Close all windows that are still open to return to the desktop.



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