Leica ScanStation Pxx
Pxx Simulator
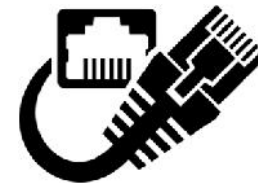**v2.0**

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Leica ScanStation Pxx
Pxx Simulator

Prerequisite

- **Leica ScanStation Pxx with FW 2.70 or higher installed**

- **Windows computer with Pxx Simulator installed**

- **Ethernet cable or WiFi connection**

HDS™

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Leica ScanStation Pxx
Pxx Simulator

What it is

- **The Pxx Simulator is a free-of-charge, standalone tool to**

  - Simulate the control of a virtual scanner (e.g. for training purposes)

  - Control a physical scanner remotely via a Windows computer

  - Store scan data directly on the connected computer

  - Control multiple scanners in parallel via a Windows computer

HDS™

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Leica ScanStation Pxx
Pxx Simulator

Where to download

- **Download the installer from**

    - Leica myWorld

    - USB stick delivered with the instrument

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Leica ScanStation Pxx
Pxx Simulator

Installation

- Unzip Pxx Simulator 2.70.yyy.zip

- Start Setup.exe

- Follow the instructions in the Pxx Simulator Setup Wizard

- Select Yes for inbound rules of port 10000 and 10001

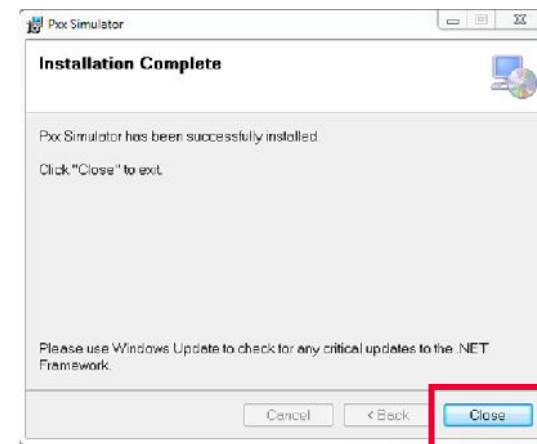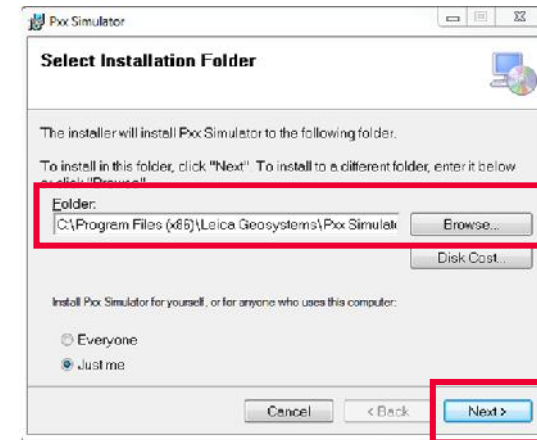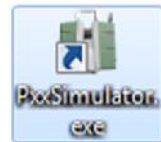- when it has to be **right**

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Leica ScanStation Pxx
Pxx Simulator

Installation cont'd

- Select the folder for the installation

- Close the wizard after successful installation

- After installation a shortcut Pxx Simulator.exe is available on the desktop

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Leica ScanStation Pxx
Pxx Simulator

Virtual scanner control

- Start the shortcut PxxSimulator.exe

- In Scan Devices panel right click on virtual scanner with serial number 1 and select Type

- In Type window select the scanner type of your virtual Pxx scanner

- Select Configuration, Simulated Scanner to hide/display the virtual scanner from/to the list of scanners in the Scan Devices panel
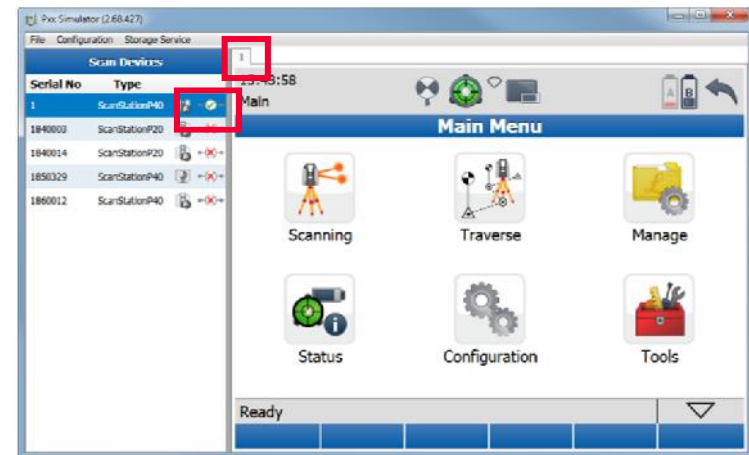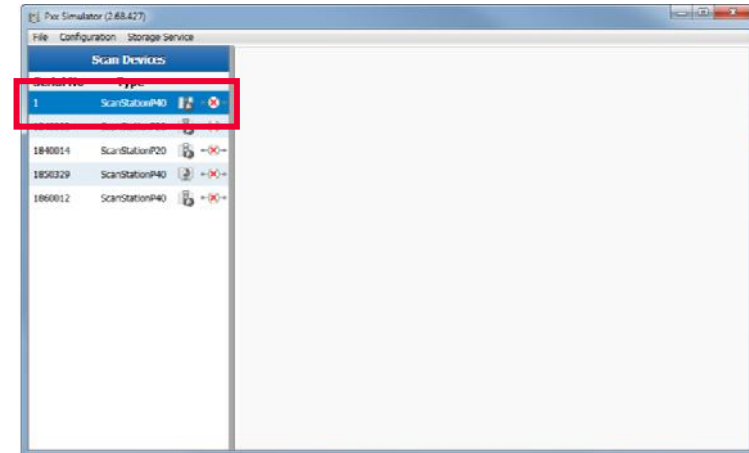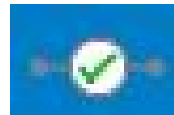
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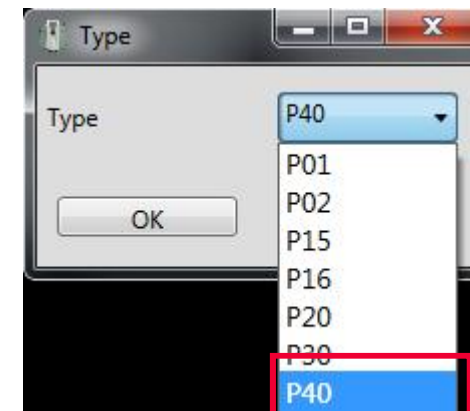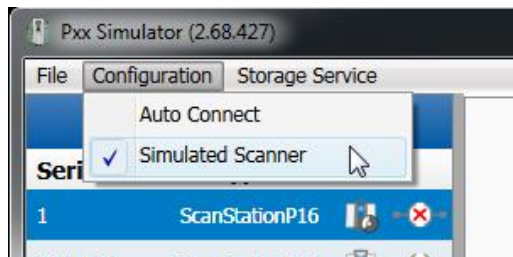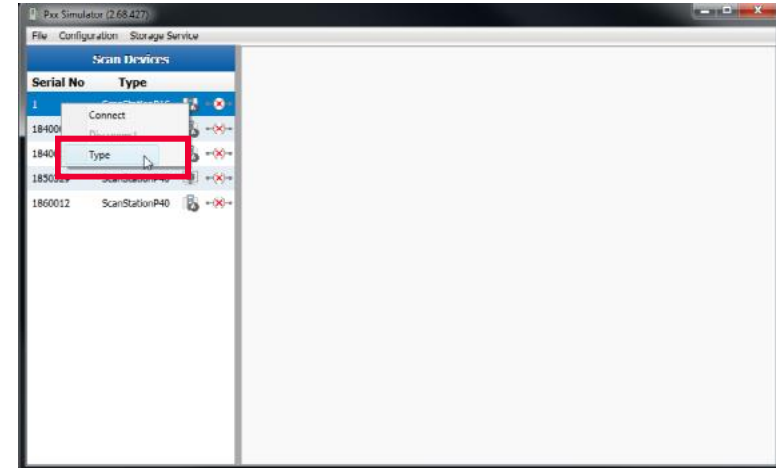
Leica ScanStation Pxx
Pxx Simulator

Virtual scanner control cont'd

- In Scan Devices double click on the virtual scanner (serial number ≠ 18xxxxx)

- Or right click and select Connect

- Test the user interface of the virtual scanner without a physical scanner being connected

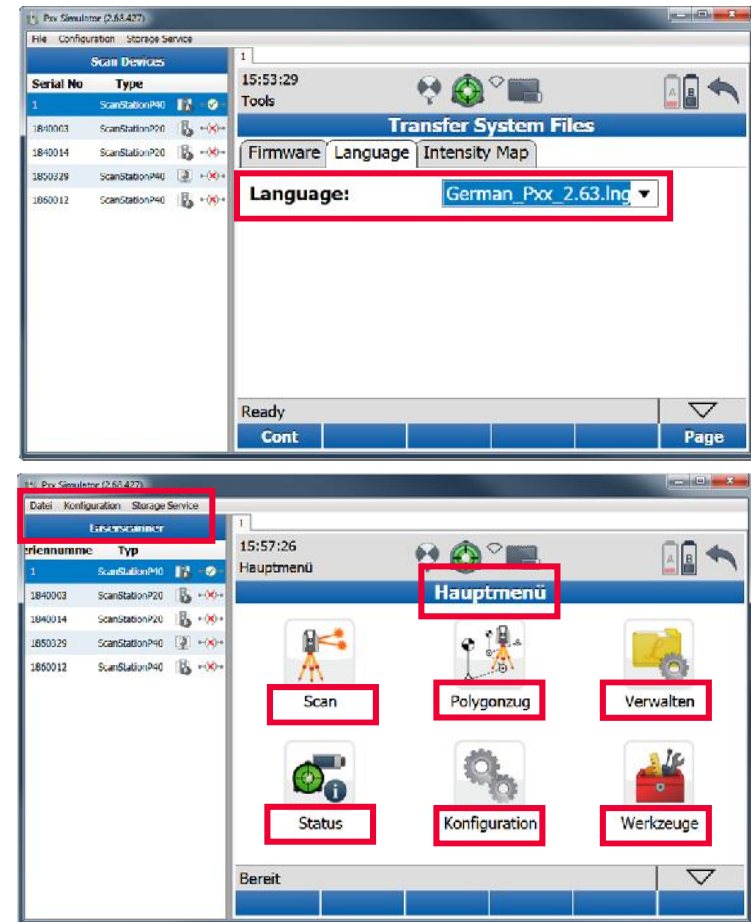- Check for serial number in the tab and the connection status in the Scan Devices panel

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Pxx Simulator

Virtual scanner control cont'd

- Copy a language LNG file to
  C:\ProgramData\Leica.Scanning\Usb
  System

- In Tools, Transfer, SystemFiles select
  the Language in the Language tab
  and press Cont

- The MMI and commands of the
 simulator are then translated with the
  selected language

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Leica ScanStation Pxx
Pxx Simulator

Physical scanner control

- Connect to a physical scanner via Ethernet cable or WiFi

- Start the shortcut PxxSimulator.exe

- In Scan Devices double right click on the physical scanner with serial number 18xxxxx

- Or right click and select Connect

- The user interface is now transfered from the onboard control to the simulator screen

- Check for serial number in the tab and the connection status in the Scan Devices panel

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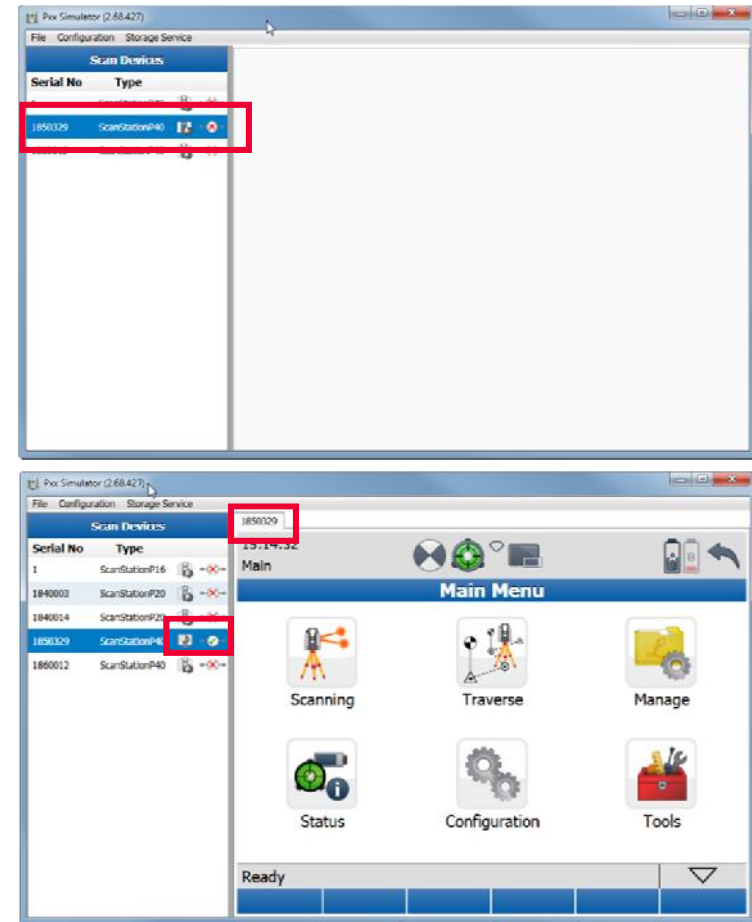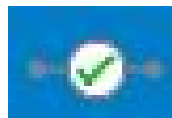
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Pxx Simulator

Physical scanner control cont'd

- Control the connected scanner remotely via the simulator interface (same controls as with onboard screen)

- Enlarge the display to full sreen resolution with the Enlarge button or drag and change to any size

- Drag the vertical separator to change the size of the Scan Devices panel

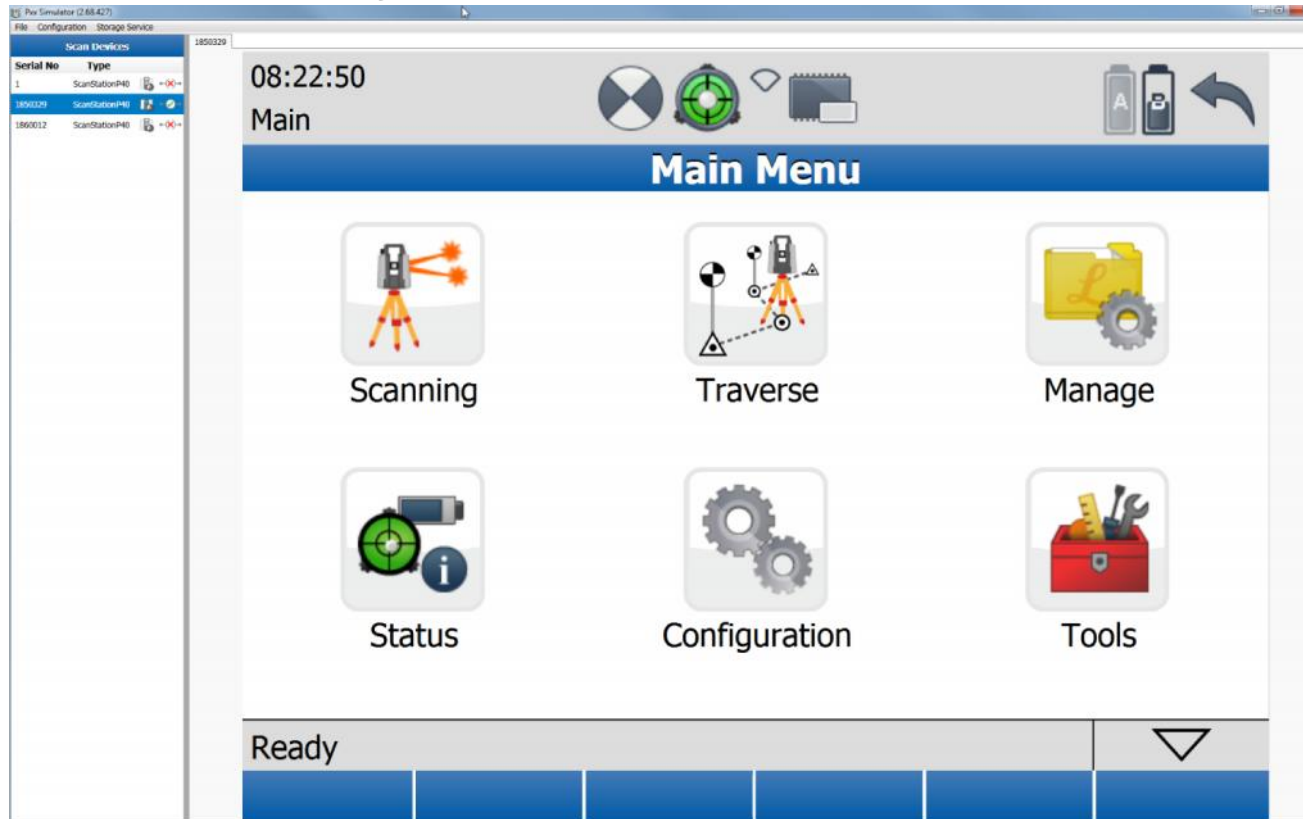- when it has to be right

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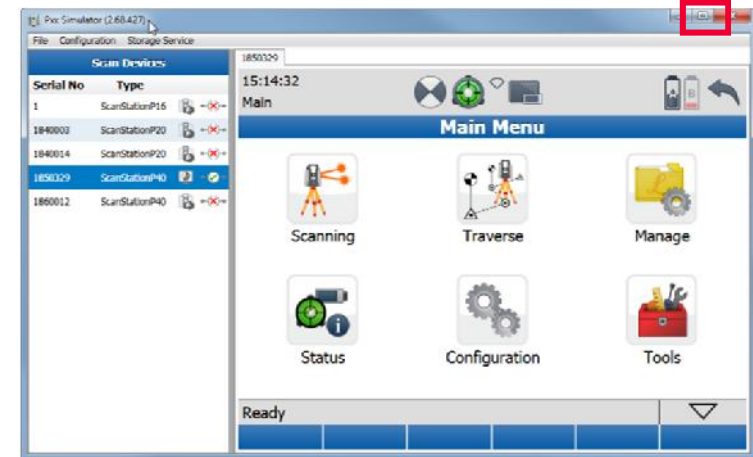
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Pxx Simulator

Physical scanner control cont'd

- **Full screen display**

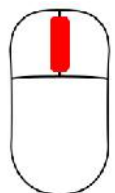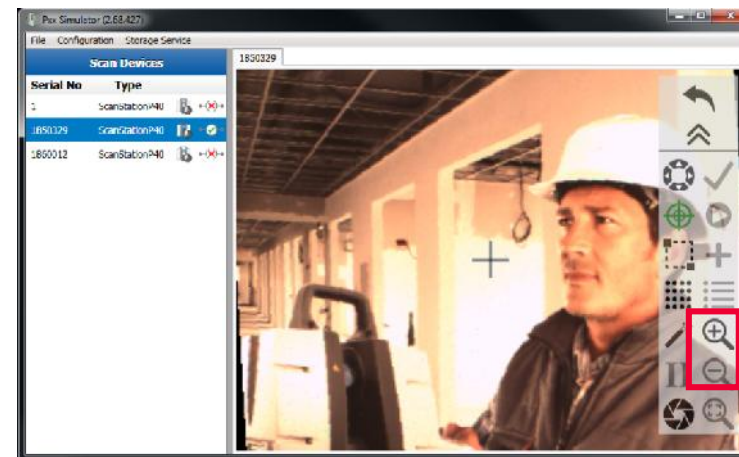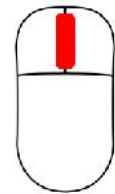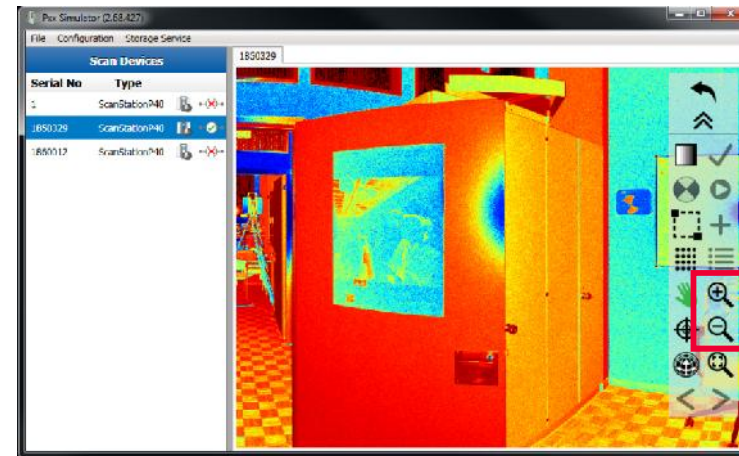- when it has to be **right**

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Pxx Simulator

Physical scanner control cont'd

- In the simulator screen use the mouse wheel to zoom in/out in a scan viewer

- In the simulator screen use the mouse wheel to zoom in/out in a camera viewer

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Leica ScanStation Pxx
Pxx Simulator

Store scan data on remote computer

- Connect to a physical scanner via Ethernet cable or WiFi

- Start the shortcut PxxSimulator.exe

- In Scan Devices right click on a physical scanner and select Storage Location

- In Storage Location switch on Store on remote Computer and define the Data Path where to store the scan data

- All scan data is then streamed directly to the storage folder without any backup on the scanner's hard drive

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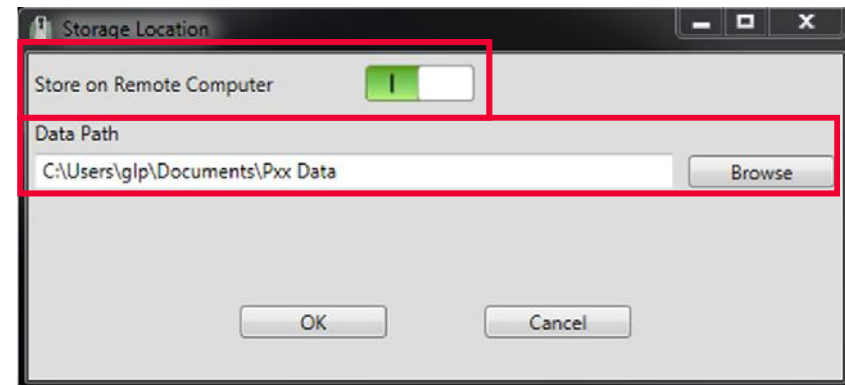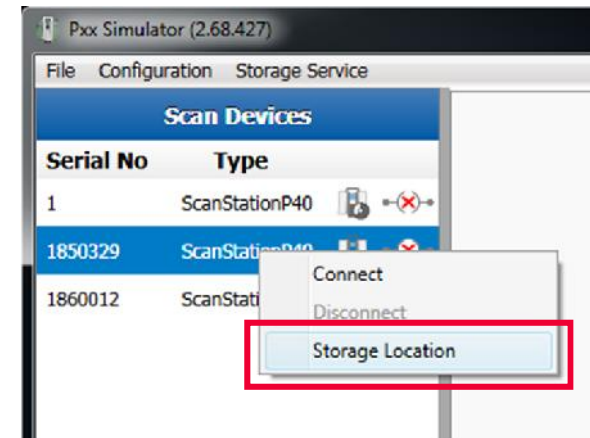
Leica ScanStation Pxx
Pxx Simulator
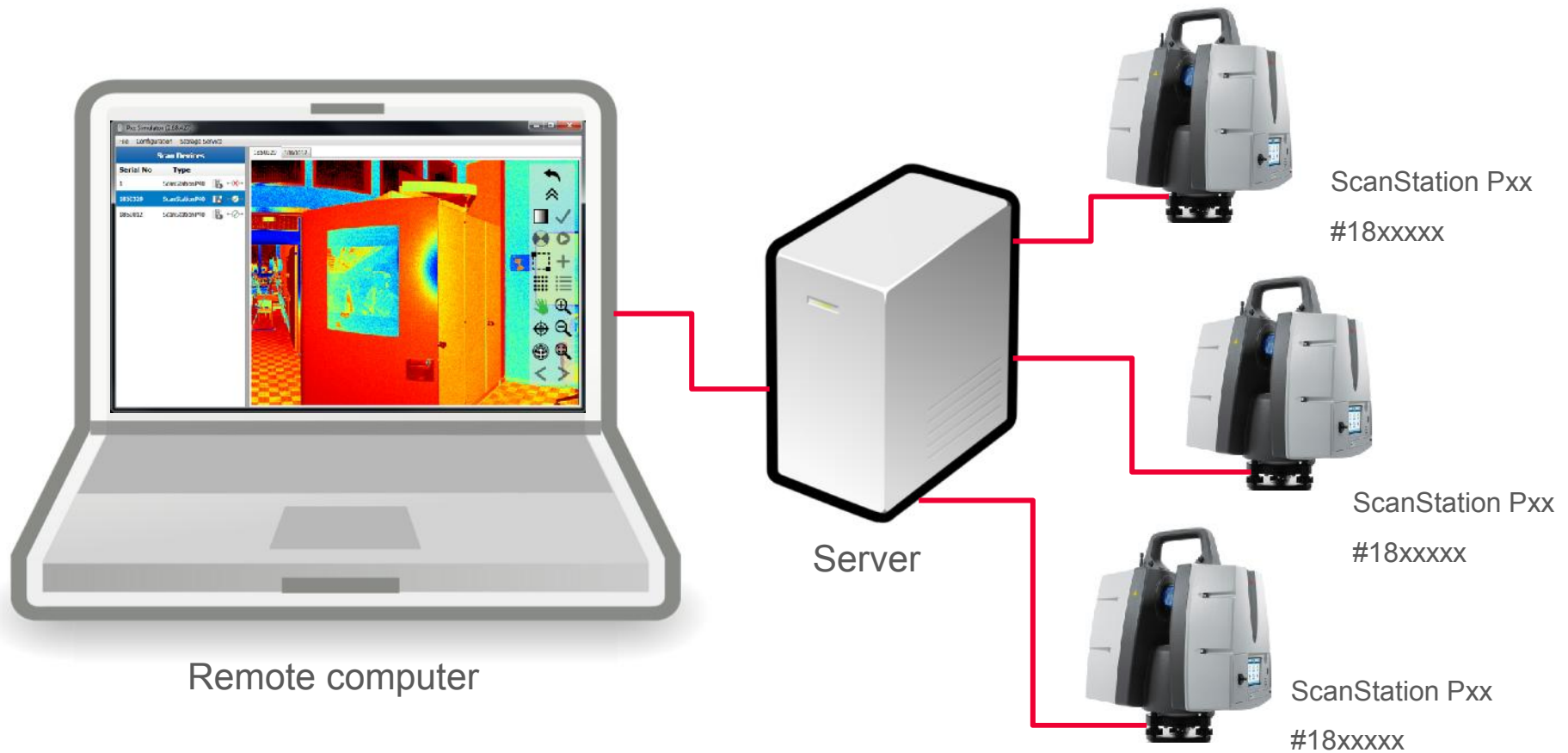
Control multiple scanners in parallel

- Connect multiple physical scanner via

    - Server based network connection or

    - Direct connection via a switch

- Start the shortcut PxxSimulator.exe

- In Scan Devices connect multiple scanners

- Switch between connected scanners by clicking on the tabs with the serial numbers

- Data can be stored on

    - scanner or

    - on remote computer

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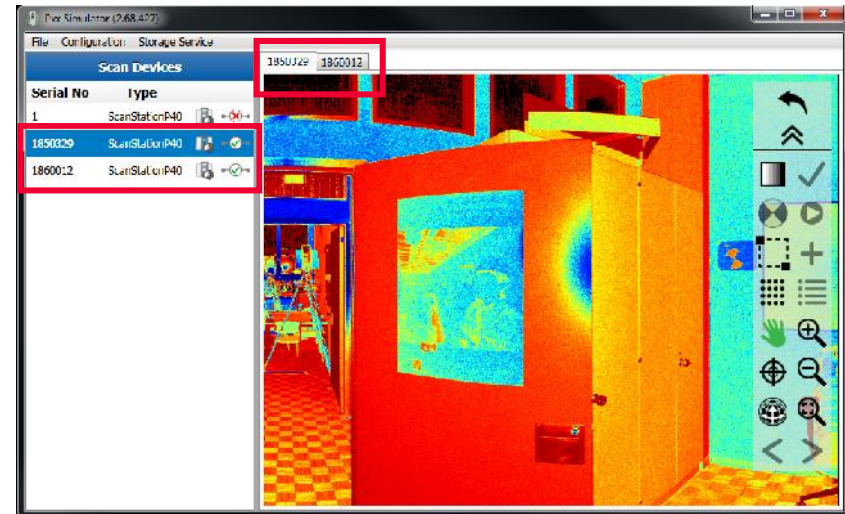
Leica ScanStation Pxx
Pxx Simulator

Control multiple scanners in parallel (network connection)

Remote computer

Server

ScanStation Pxx

#18xxxxx

ScanStation Pxx

#18xxxxx

ScanStation Pxx

#18xxxxx

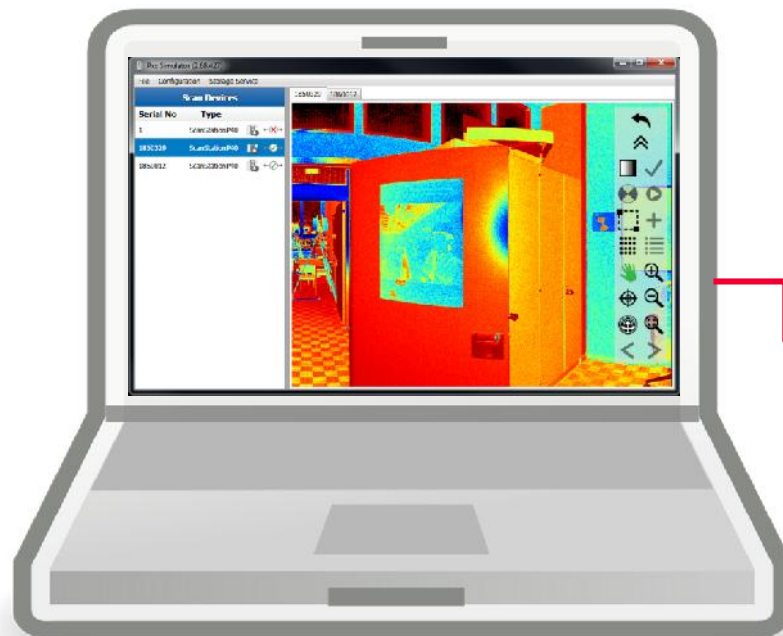- when it has to be **right**

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Leica ScanStation Pxx
Pxx Simulator

Control multiple scanners in parallel (direct connection via switch)

Remote computer

Switch

ScanStation Pxx

#18xxxxx

ScanStation Pxx

#18xxxxx

ScanStation Pxx

#18xxxxx

- when it has to be **right**

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