

bti®

Human
Technology

LANGUAGE

English

SOFTWARE

BTI SCAN 4

QUICK GUIDE

Planning for dental implantology



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1 MINIMUM SYSTEM REQUIREMENTS TO INSTALL BTI SCAN 4

Operating system

Client (Network installation)/Single station	Windows 11 Professional x64 (64 bits)
Server (Network installation)	Minimum: Windows 2019 standard server Recommended: Windows Server 2022 Standard



Data processing and pre-surgical dental planning should not be performed from the server. The Server should only be used to act as a server and for storing studies in a networked installation. Data integrity could be compromised.

CPU

Minimum	Intel Core i5
Recommended	Intel Core i7 or higher

RAM

Minimum	8 GB
Recommended	16 GB

Storage

Minimum	5 GB client/single user 5 TB Server
Recommended	10 GB SSD client/single user 10 TB SSD Server

Graphics card

Minimum	Dedicated graphics card, not integrated in the motherboard, compatible with OpenGL.
Recommended	Nvidia or better with support for OpenGL 2.0.

Screen

The following are requirements for computers on which the study plan is to be made. For hardware that is going to act as Server (and is only going to be used to host studies) any type of monitor is sufficient, since the use of the server is not recommended for planning.

Minimum	22-inch monitor with a minimum resolution of 1440x900 with 16-bit colour depth.
Recommended	24-inch monitor with a 1920x1200 resolution as BTI SCAN 4 is a diagnostic tool, the larger the monitor, the better the visualisation and handling of the application.
Mouse	Mouse with a central wheel button.

Text	Text size 100% or 125% if these parameters are exceeded, the texts will become unreadable.
Network connection	1GB Ethernet network cable, not Wi-Fi.
General firewall requirements	
Status inspection	Enabled. Monitors and analyses ongoing connections.
Intrusion prevention system	Enabled. An intrusion prevention system helps detect and prevent attacks in real time.
Encryption support	Enabled. Supports secure encryption protocols such as IPSec or SSL/TLS.
Detailed logs and reports	Enabled. Generating detailed access and activity logs is essential for anomaly detection.
Recommended Firewall	Next-generation firewall (NGFW).
General recommendations	<ul style="list-style-type: none"> - You must allow access to the port configured during installation if installed in server mode, by default 5432. - Windows server: file and printer sharing: incoming. - Windows workstation: file and printer sharing: outgoing.

2 GENERAL INFORMATION

Throughout this manual the following symbols are used, which have the following meanings:



This symbol accompanies a text to which special attention will have to be paid, as it indicates cautions to consider.



This symbol accompanies a text to which special attention will have to be paid, as it indicates warnings to consider.



This symbol accompanies a text with references to other sections of this manual.



This symbol accompanies important information for the user.



Product reference



Manufacturer



Medical device



Unique Device Identifier



CE marking



Manufacturing date

Rx only For professional use only

Some anti-virus software may be configured so they can identify the bootable installation files of BTI SCAN 4 harmful to the system. Please ignore this warning and continue with the installation.

The database management system used by BTI SCAN 4 (Postgre SQL) can cause connection problems if an antivirus and/or firewall blocks communication.

The program BTI SCAN 4 is protected by a hardware and software SENTINEL/HASP protection system. This means that, to run BTI Scan® 4, the virtual license provided by BTI must be present on the PC (in single-station installations) or in the PC that is acting as a server (in network installations). The program can be used concurrently by as many users on the network as licenses have been acquired.

3 INSTALLING THE PROGRAM – MANAGING USERS

3.1 INSTALLING THE PROGRAM

Manually run the BTI Scan 4 installer by double clicking.



Do not install BTI SCAN 4 on a public network. Otherwise, a security breach may occur, and the program might not work properly.



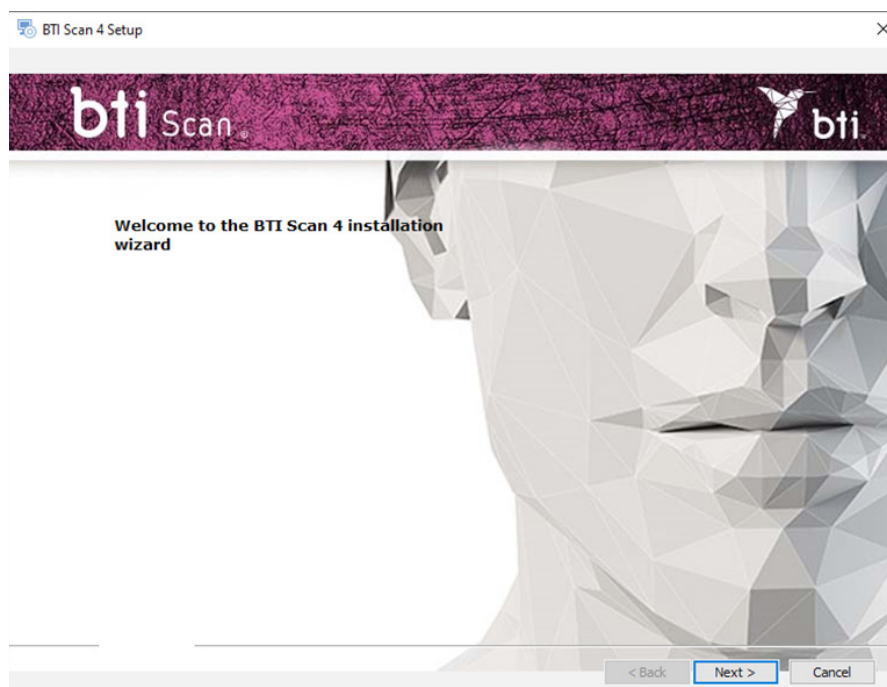
If you have any problems or cannot install BTI SCAN 4, please contact the BTI Technical Service Team.



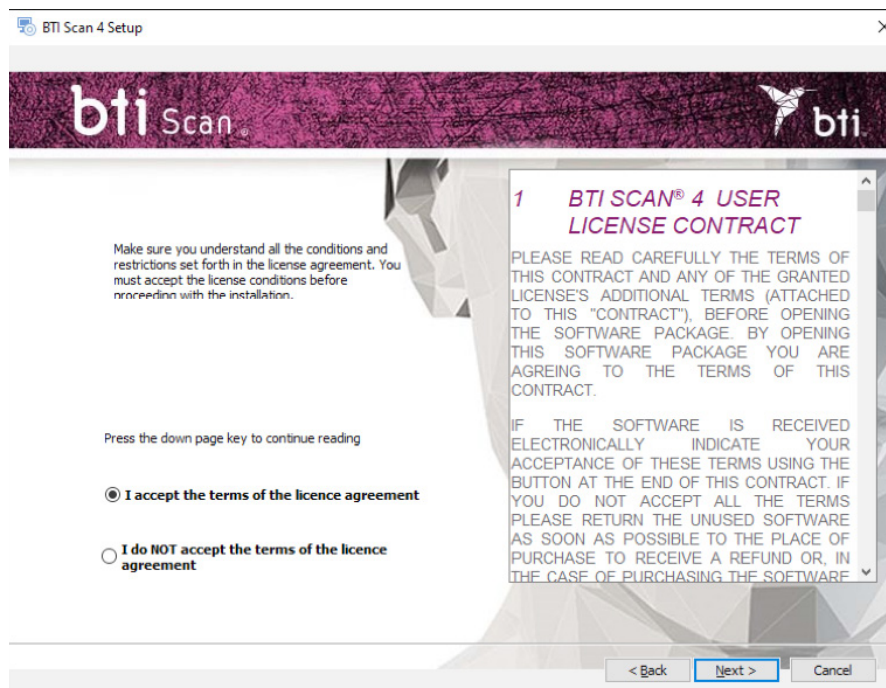
Before starting installation of BTI SCAN 4 we recommend you close any documents or applications open on the system. Otherwise, the installation may not be carried out correctly.

Follow these steps:

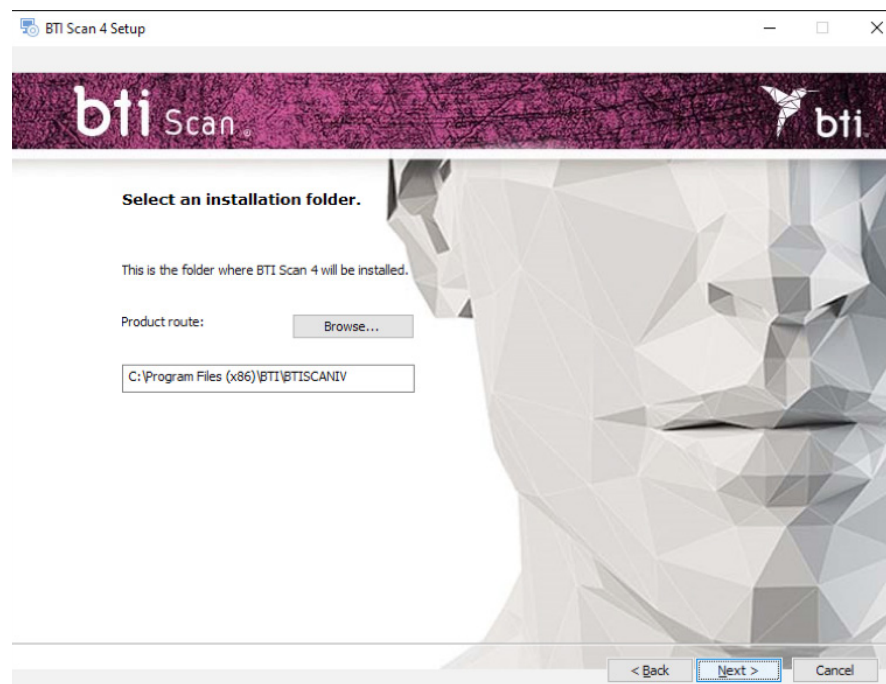
1) Click on Next on the welcome screen.



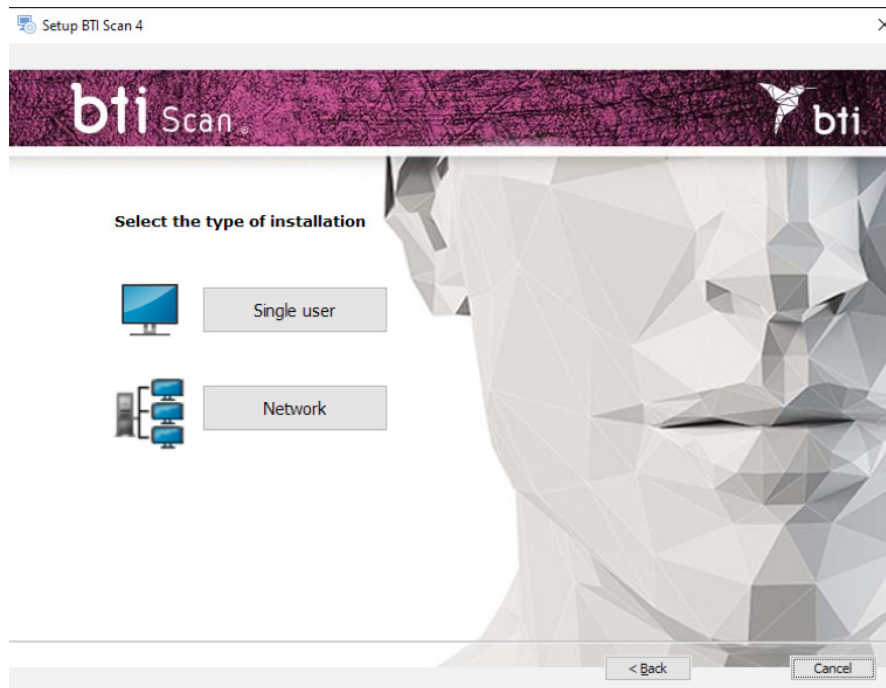
2) Accept the licence agreement terms and click on Next.



3) Select the installation route and click on Next.



4) Choose between a single user (see Section 5.1.1) or network installation (see Section 5.1.2). After this, it will be necessary to activate the license (Section 5.3).



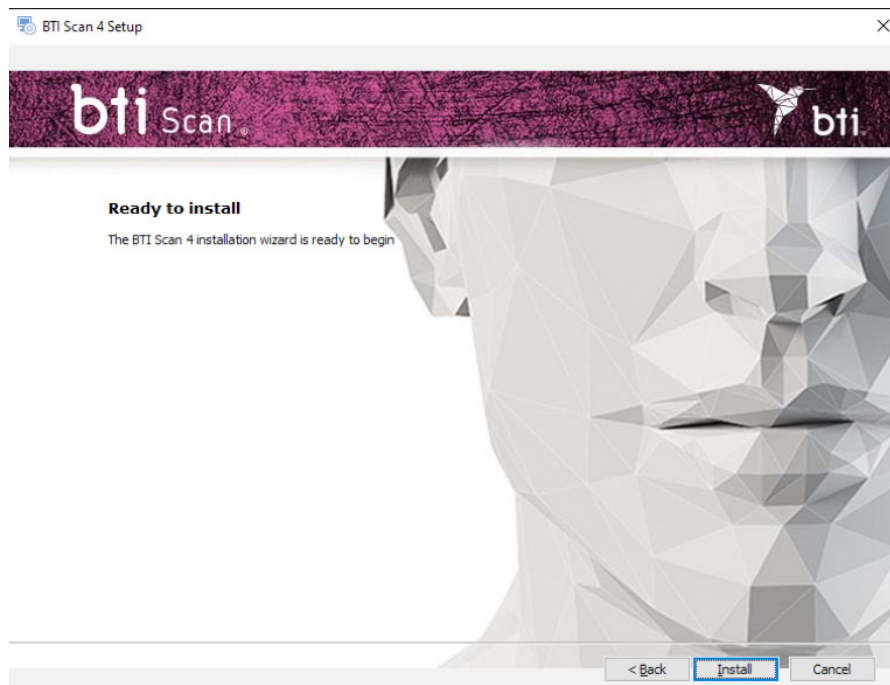
3.1.1 SINGLE-STATION INSTALLATION

Select the single-station installation if you are going to install the application on one computer only:

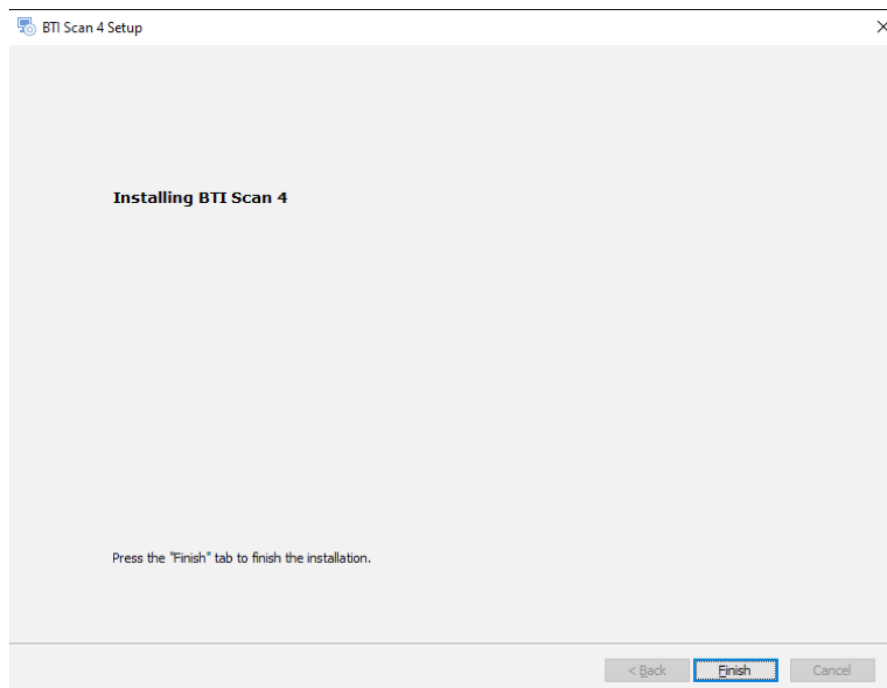
- 1) Select the single-station option and install.



Single user



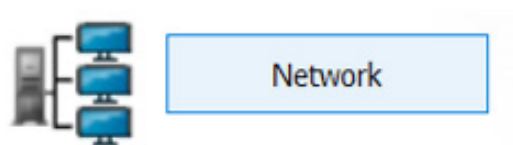
2) Press Finish to finish the installation.



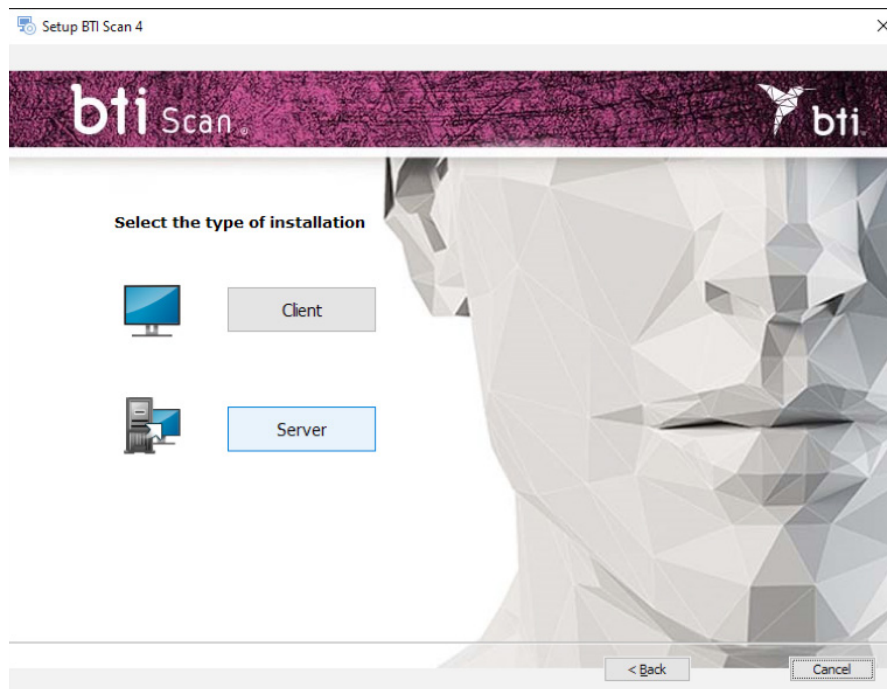
3.1.2 NETWORK INSTALLATION

Choose network installation when you are going to install the application on several computers. One of them will act as a server (storing the database) and the other computers are its clients:

1) Select the option Network.



2) Choose between the two types of installation: Client or Server.



Install BTI SCAN 4 in:



- First on the computer that will be the Server.
- Then on the Client computers.

We recommend always processing data from the client PCs that are equipped for this purpose. Leave the server for storing the studies and the database.

Server/client installation

Select the option Server to indicate to the application that this is the computer that will store the study and the database:

Select the option Client to install the application in a computer other than the server:

1) Select the option desired and click on Next:



Server

Server: The installation program automatically detects and assigns the TCP/IP address and the port number of the computer, although this data can be changed if necessary. Check that the information is correct and click on Next.



Ensure that it is being installed on a Windows 2012 R2 Server x64 or higher. Previous versions have not been verified.



By default, the port number is 5432. If the program detects that this port is occupied by another application it will select a port that is free.



Note the TCP/IP address and PORT NUMBER as they will be requested when you install the client.



The TCP/IP address must be fixed, otherwise the program will not work and it will not be possible to connect with the database.



The firewall and antivirus must be configured to exclude the port number assigned (in the following figure, 5432) from the list of supervised ports. Otherwise, access to the database may be blocked.



If you have any doubts as to how to configure the firewall rules, consult the network administrator or the IT support service.



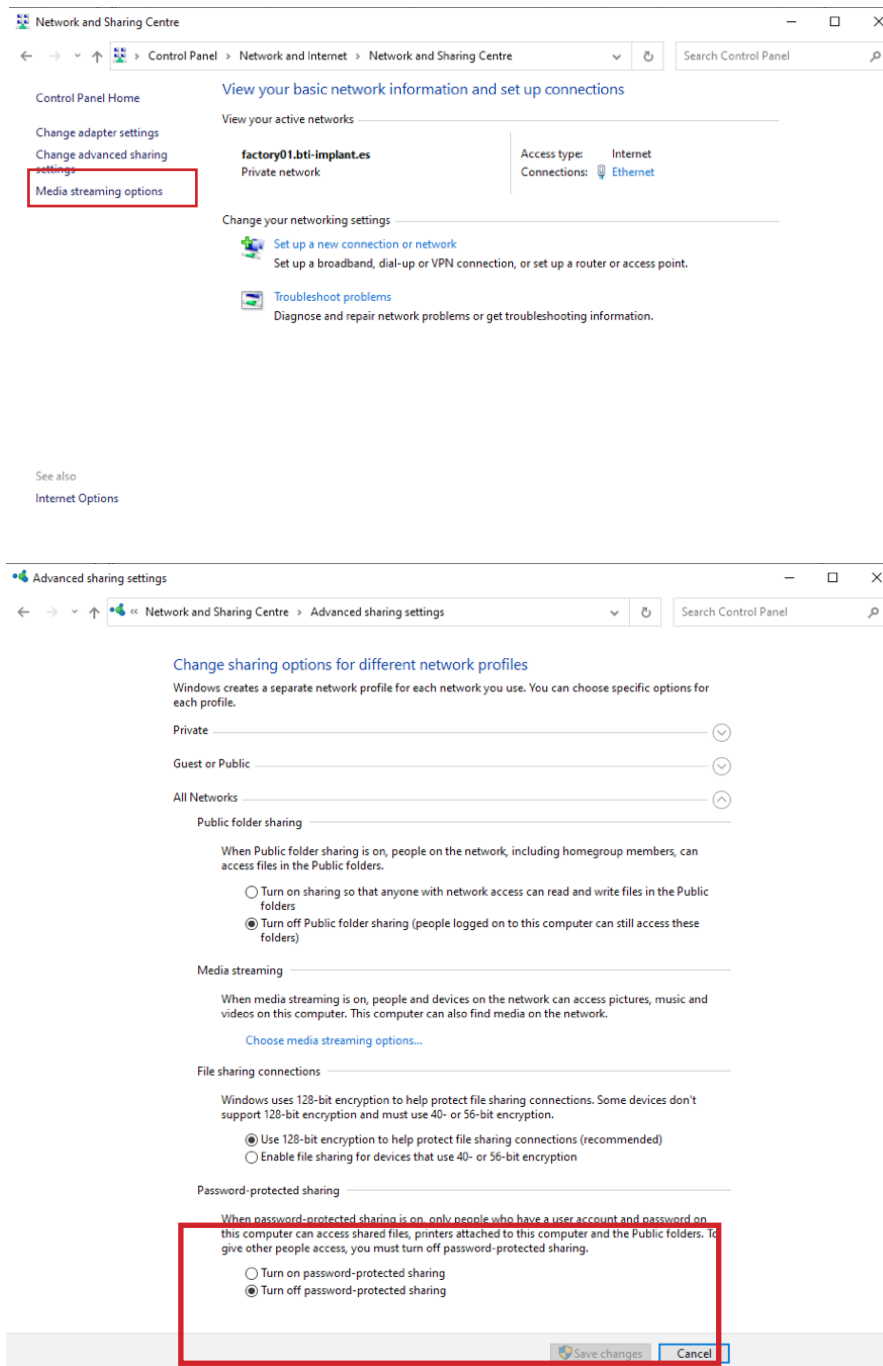
To ensure connection with the server, password protected sharing must be switched off. The option is available in the 'Network and Sharing Center' by accessing the 'Advanced Sharing' settings.



If during the installation of BTI SCAN 4 an antivirus and/or firewall warns that POSTGRE SQL requests access, authorise it and continue the installation.



If during the installation of BTI SCAN 4 an antivirus and/or firewall warns that SENTINEL/HASP requests access, authorise it and continue the installation.



The image shows two screenshots from a Windows 10 desktop. The top screenshot is the 'Network and Sharing Centre' window. It displays the network status for 'factory01.bti-implant.es' as a 'Private network' with 'Internet' access type and 'Ethernet' connection. In the left-hand navigation pane, 'Media streaming options' is highlighted with a red rectangle. The bottom screenshot is the 'Advanced sharing settings' window. It shows settings for 'Private', 'Guest or Public', and 'All Networks' profiles. Under 'Public folder sharing', the option 'Turn off Public folder sharing' is selected. Under 'Media streaming', the option 'Choose media streaming options...' is visible. Under 'File sharing connections', the option 'Use 128-bit encryption to help protect file sharing connections (recommended)' is selected. Under 'Password-protected sharing', the option 'Turn off password-protected sharing' is selected, and this entire section is highlighted with a red rectangle. At the bottom right of the window, there are 'Save changes' and 'Cancel' buttons.

Network and Sharing Centre

Control Panel Home

Change adapter settings

Change advanced sharing settings

Media streaming options

View your basic network information and set up connections

View your active networks

factory01.bti-implant.es
Private network

Access type: Internet
Connections: Ethernet

Change your networking settings

Set up a new connection or network
Set up a broadband, dial-up or VPN connection, or set up a router or access point.

Troubleshoot problems
Diagnose and repair network problems or get troubleshooting information.

See also
Internet Options

Advanced sharing settings

Change sharing options for different network profiles

Windows creates a separate network profile for each network you use. You can choose specific options for each profile.

Private

Guest or Public

All Networks

Public folder sharing

When Public folder sharing is on, people on the network, including homegroup members, can access files in the Public folders.

☐ Turn on sharing so that anyone with network access can read and write files in the Public folders

☒ Turn off Public folder sharing (people logged on to this computer can still access these folders)

Media streaming

When media streaming is on, people and devices on the network can access pictures, music and videos on this computer. This computer can also find media on the network.

[Choose media streaming options...](#)

File sharing connections

Windows uses 128-bit encryption to help protect file sharing connections. Some devices don't support 128-bit encryption and must use 40- or 56-bit encryption.

☒ Use 128-bit encryption to help protect file sharing connections (recommended)

☐ Enable file sharing for devices that use 40- or 56-bit encryption

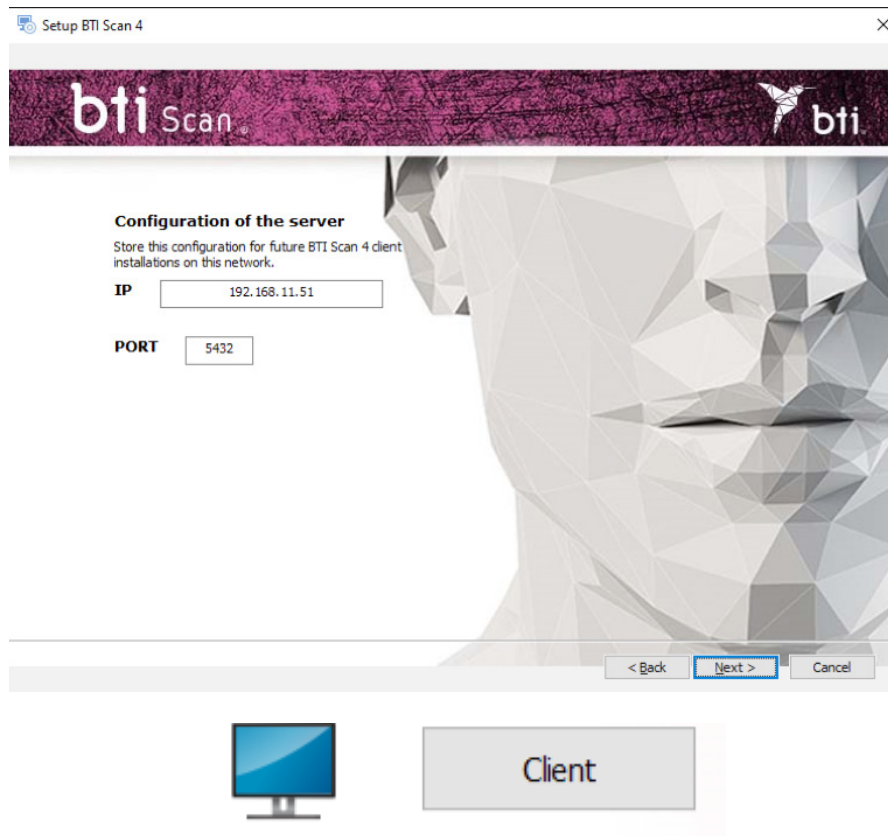
Password-protected sharing

When password-protected sharing is on, only people who have a user account and password on this computer can access shared files, printers attached to this computer and the Public folders. To give other people access, you must turn off password-protected sharing.

☐ Turn on password-protected sharing

☒ Turn off password-protected sharing

Save changes Cancel



Client: Enter the TCP/IP address and the port number used when installing the server and click on Next.

2) Continue and click on Finish to complete the installation.

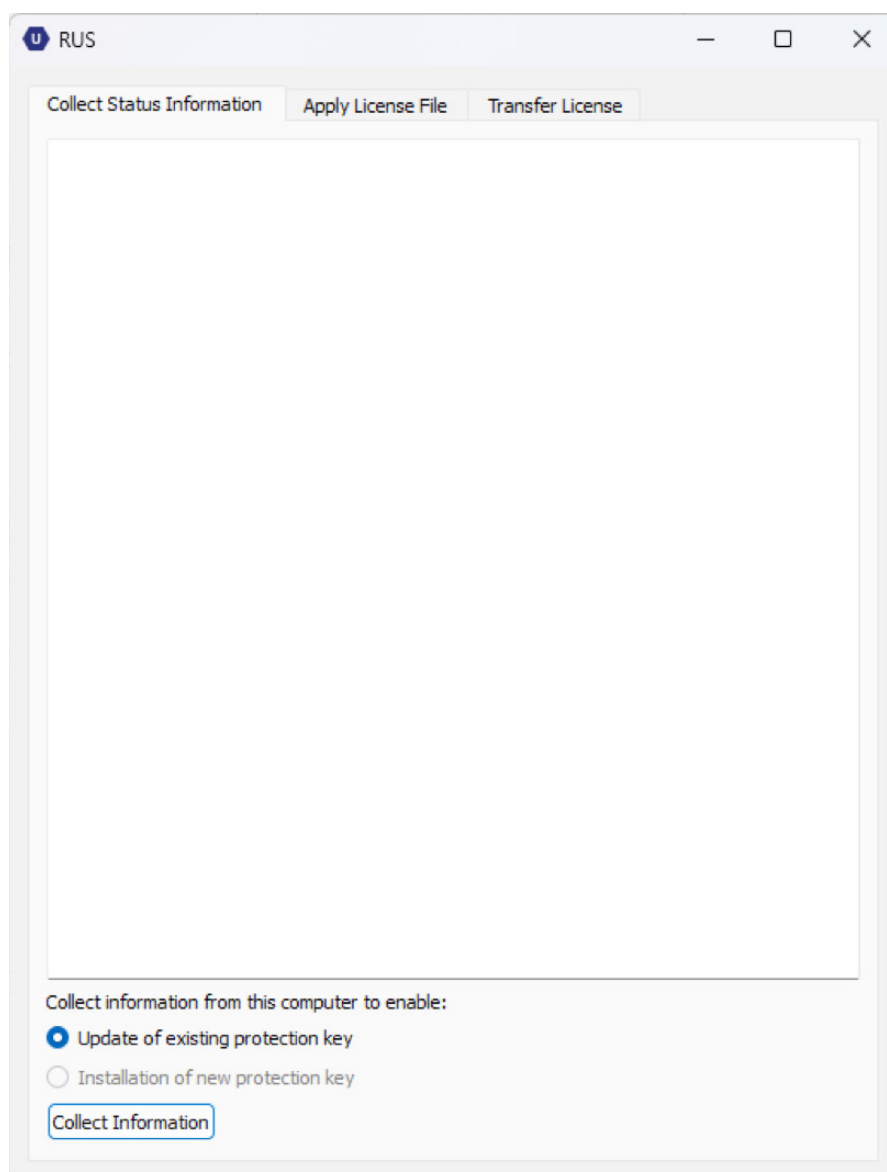
3.2 LICENSE ACTIVATION

License activation can be done in two ways, depending on whether the license is to be installed on a computer without internet access or on a computer with internet access where the software has been installed. In any case, if you want to use the software in server/client mode, you must activate the licence on the server only.

3.2.1 INSTALLATION ON A COMPUTER WITHOUT INTERNET CONNECTION

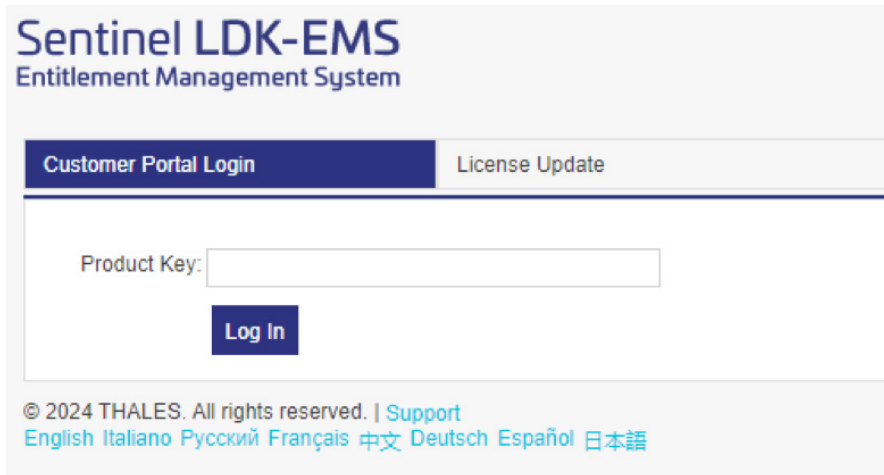
Along with the installer, a product key and a RUS executable are included. To activate the license, you must first collect the information from the computer on which the software will be run.

To do this, execute the RUS on the offline computer, select the option for installing a new protection key, and click the "Collect Information" button.



After this, the c2v file should be saved and sent to a computer with an internet connection.

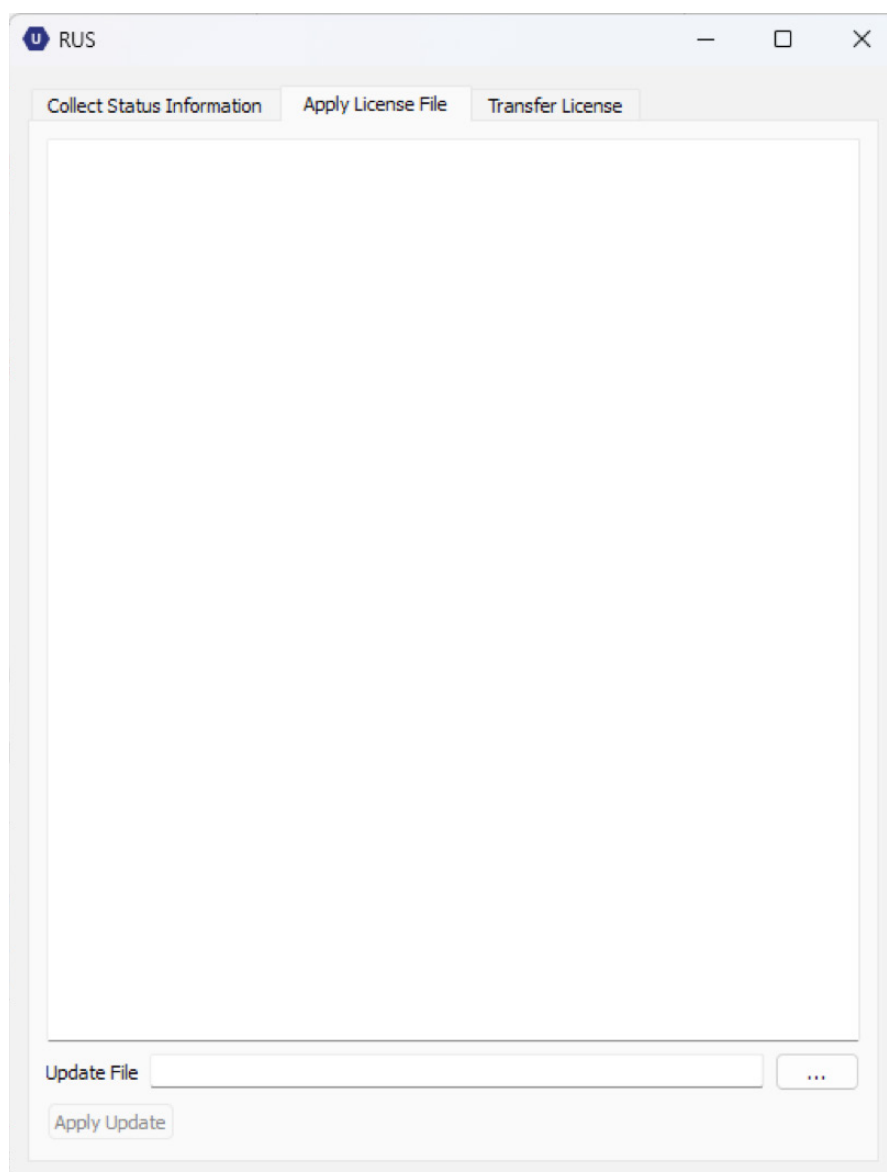
Once the information has been collected, using a computer with internet access, go to the webpage <https://ls01.bti-biotechnologyinstitute.com/ems/customerLogin.html> and enter the product key.



The screenshot shows the Sentinel LDK-EMS Entitlement Management System interface. At the top, the title "Sentinel LDK-EMS" is displayed in a large, bold, dark blue font, with "Entitlement Management System" in a smaller, regular, dark blue font below it. Below the title, there are two tabs: "Customer Portal Login" (highlighted in dark blue with white text) and "License Update" (in light gray with dark blue text). Under the "Customer Portal Login" tab, there is a form with a label "Product Key:" followed by a text input field. Below the input field is a dark blue "Log In" button. At the bottom of the form, there is a copyright notice: "© 2024 THALES. All rights reserved. | Support" followed by a list of language links: "English Italiano Русский Français 中文 Deutsch Español 日本語".

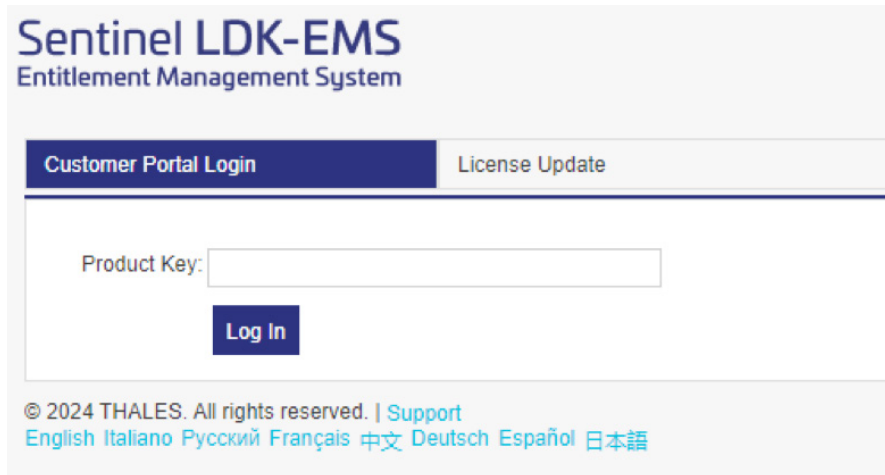
Once the product key has been entered, select the offline activation option and attach the c2v file generated on the offline computer. This will generate a v2cp file that should be downloaded to an accessible location and then sent to the offline computer.

Finally, to activate the license, run the RUS again on the offline computer and select the Apply License File tab. Attach the recently generated v2cp file, and the software will then be available for use.



3.2.2 INSTALLATION ON A COMPUTER WITH INTERNET CONNECTION

If the computer where the software is installed has internet access, to activate the license, simply go to the webpage <https://ls01.bti-biotechnologyinstitute.com/ems/customerLogin.html> and enter the product key.



Sentinel LDK-EMS
Entitlement Management System

Customer Portal Login License Update

Product Key:

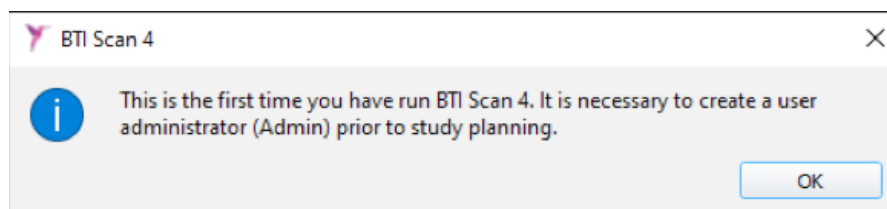
Log In

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Once the product key has been entered, the Online Activation option will be selected and the licence will be activated.

3.3 RUNNING THE PROGRAM FOR THE FIRST TIME

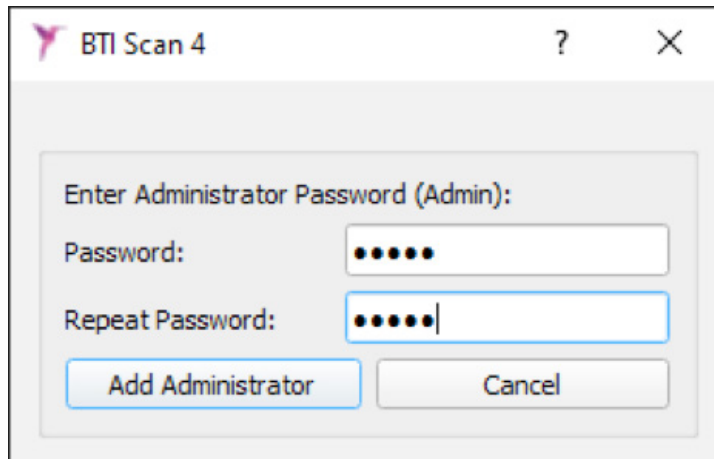
When you start the application for the first time you must configure the following parameters:



1) Password for the user Admin



Before planning any studies, the program creates a main user called administrator (admin). This user can create and manage other users and establish permissions.



BTI Scan 4

Enter Administrator Password (Admin):

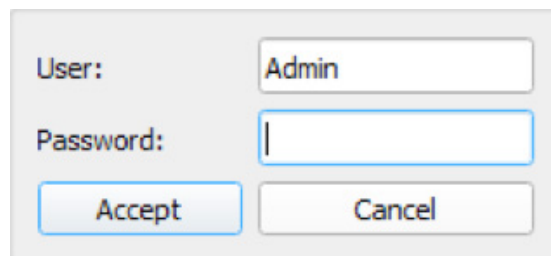
Password:

Repeat Password:

i This user may not be deleted or modified.

i The password must be at least 5 characters .

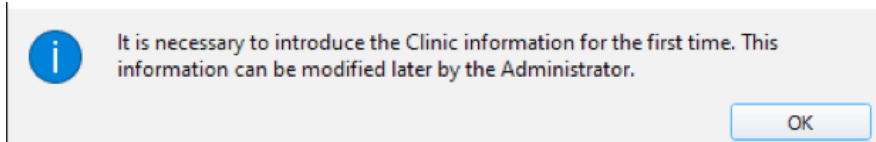
Once you have selected the password, access the program with the username Admin and the password selected and continue with the initial configuration process.



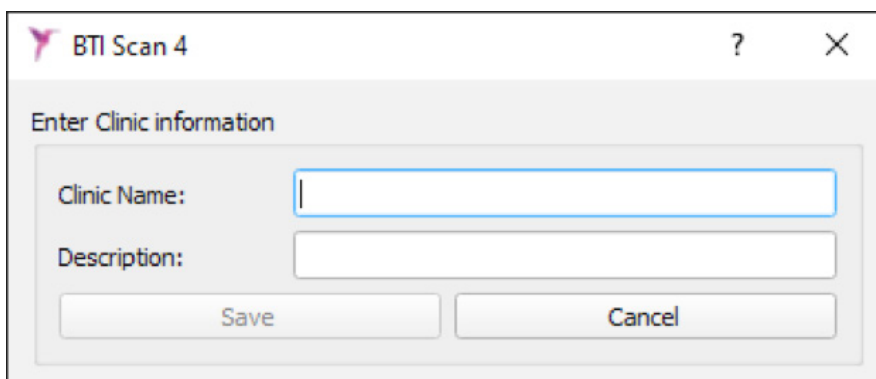
User:

Password:

2) Clinic information.



i It is necessary to introduce the Clinic information for the first time. This information can be modified later by the Administrator.



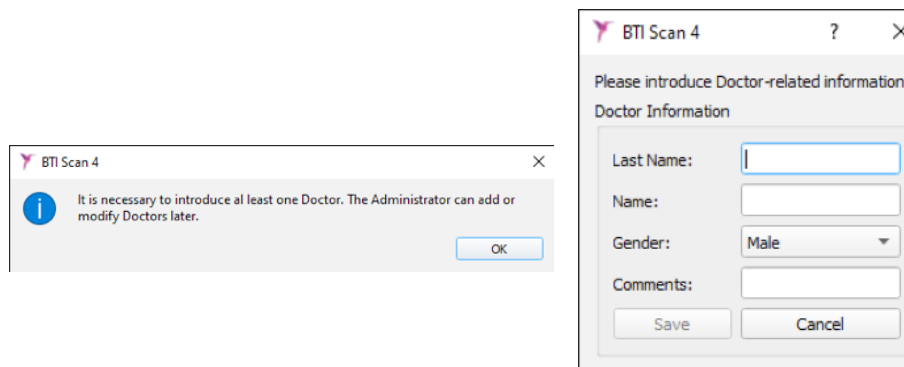
BTI Scan 4

Enter Clinic information

Clinic Name:

Description:

3) Data of at least one doctor.



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PLEASE READ CAREFULLY THE TERMS OF THIS CONTRACT AND ANY OF THE GRANTED LICENSE'S ADDITIONAL TERMS (ATTACHED TO THIS "CONTRACT"), BEFORE OPENING THE SOFTWARE PACKAGE. BY OPENING THIS SOFTWARE PACKAGE, YOU ARE AGREEING TO THE TERMS OF THIS CONTRACT.

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4.3 LIMITED WARRANTY

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The acquired software permits the end user to adopt the applicable security measures for automated files in accordance with current personal data protection laws in respect of patient information, such as user information management or control and registry of both access and incidents. Notwithstanding, we recommend that the user of this software adheres to the applicable requirements according to current personal data protection laws, in addition to the software's own security measures.

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ITK

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This contract shall be valid until its conclusion. You can end this contract at any time by destroying any copies of the software. This contract can be ended without warning by BTI should you fail to fulfil any of the requirements contained therein. At the moment of ending the contract, for any reason, you should delete the software from any memory on your computer and storage devices or files which are in your possession or under your control.

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