

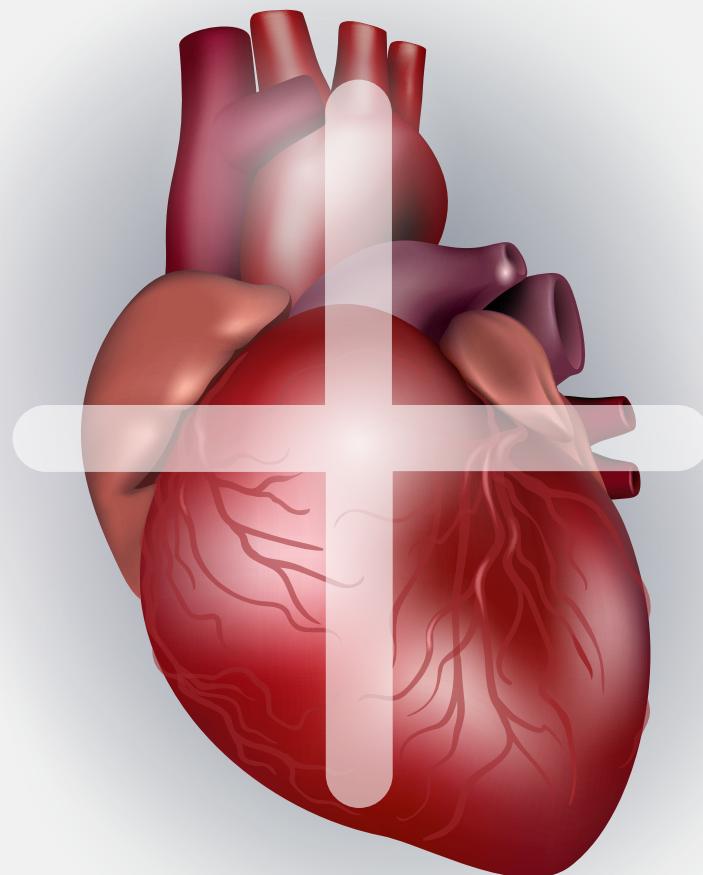
# INSTALLATION AND CONFIGURATION GUIDE

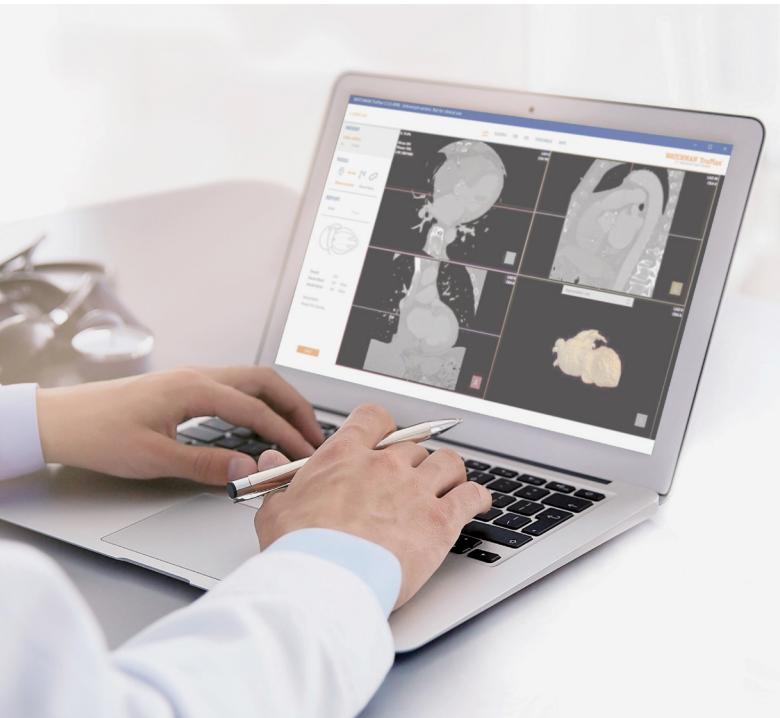
JANUARY 2021

VERSION 1.0

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WATCHMAN™ TruPlan™ software is developed and owned by Circle Cardiovascular Imaging Inc. (Calgary, AB, Canada), and Boston Scientific is the exclusive reseller of WATCHMAN™ TruPlan™ software.





## System Requirements

The minimum system requirements for TruPlan are:

Requirement	Minimum Requirements
Operating System	Windows 10 64bit
Processor	Intel Core i5 or better
GPU	Intel HD 620 or better (Dedicated GPU is recommended)
System RAM	8 GB (16 GB Recommended)
Display	1280x800

## Update Your Graphics Driver

It is advised to download and install the latest GPU driver:

- Right click on Windows logo
- **Select “Device manager”**
- Expand “Display adapters”
- Right click on graphics card and **select “Update driver”**
- Follow on screen instructions for automatic search and update the driver



## Cyber security & Network Security

To protect the patient information, it is advised to make sure the operating system of the computer is protected with a password and the patient information is stored on an encrypted disk partition.

TruPlan is tested with the security suite of Windows Defender, there are no known limitations.

It is advised to install the latest security updates for the operating system.

TruPlan is not meant as the single storage location of the DICOM data, therefore there are no requirements for making backups of the system.

TruPlan logs errors in the log.txt and user actions regarding patient information in the audit.log, both files can be found in  
**C:\Users\<username>\AppData\Roaming\Circle Cvi\TruPlan.**

## Technical Support

For technical questions please contact our team by phone or e-mail:

### North America

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1100, 800 5th Avenue SW Calgary  
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### Europe

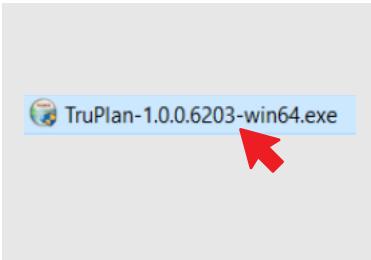
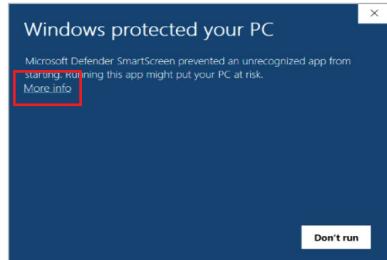
Circle Cardiovascular Imaging B.V.  
P: +31 (800)265 8982

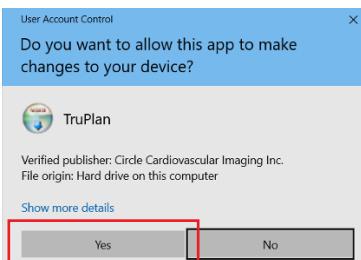
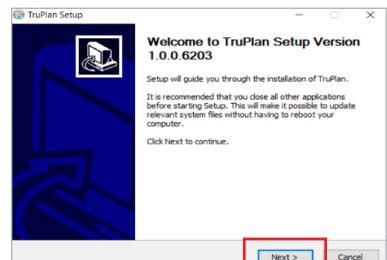
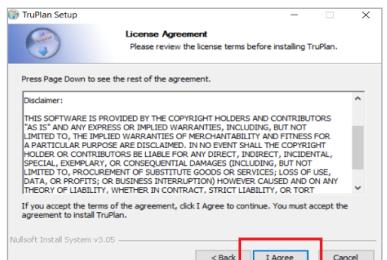
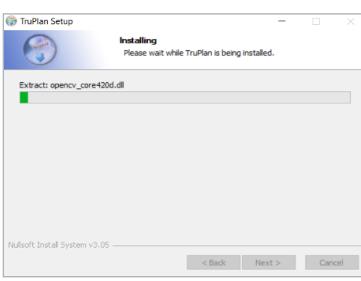
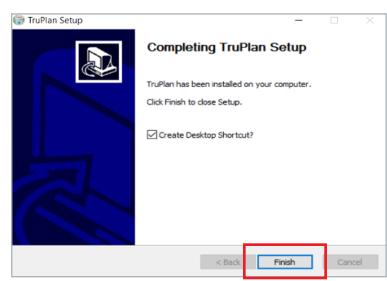
**Report a problem:** support@circlevci.com

**Website:** www.circlevci.com

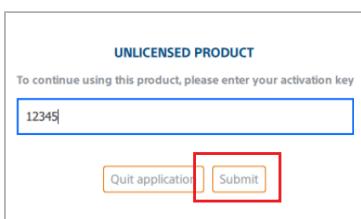
## Installation of WATCHMAN TruPlan

WATCHMAN TruPlan software can be downloaded from [www.circlecv.com/watchman-truplan](http://www.circlecv.com/watchman-truplan).

- 1** To start the installation, **double click the TruPlan icon**. Version number may vary.  

- 2** Windows defender may show this SmartScreen window. **Click on "More info"**.  

- 3** **Click the "Run anyway" button.**  

- 4** In the next dialog **click "Yes"** to allow the setup to start.  

- 5** **Select "Next"** in the welcome screen.  

- 6** **Press "I agree"** in the license agreement dialog.  

- 7** Wait for the installer to finish installing the software.  

- 8** **Press "Finish"** to complete.  

- 9** When selected, the installer will create a shortcut on the desktop.  


## License Activation of WATCHMAN TruPlan



When starting the application, a license check is performed, when the product is not licensed, the license dialog will pop up.

**Enter the license key in this dialog and press "Submit".**

To validate the license the system needs an active internet connection. When the license fails an error will be shown, in that case check the internet connection and whether the correct license key has been entered.

## Configuration of Orthanc (DICOM Study Cache)

The TruPlan installer installs an open-source, lightweight DICOM server called Orthanc to handle the studies. (<https://www.orthanc-server.com/>)

### CONFIGURATION OF THE DATA LOCATION

By default, all imported studies are stored in C:\Orthanc, in case of a smaller C: drive it might be useful to store the data on a different drive, e.g. D:\Orthanc.

The store location is defined in orthanc.json (C:\Program Files\Orthanc Server\Configuration) it can be edited in a text editor like notepad.

Find the following two lines and change the path as desired:

"StorageDirectory" : "C:\\Orthanc",  
"IndexDirectory" : "C:\\Orthanc",

Save the change and restart the system or Orthanc service

### CONFIGURING TRUPLAN/ORTHANC TO QUERY/RETRIEVE REMOTE DICOM SYSTEM

All settings are stored in: "C:\Program Files\Orthanc Server\Configuration\orthanc.json"

#### Local DICOM Settings:

"DicomAet" : "ORTHANC",  
"DicomPort" : 4242,

This information plus the hostname or IP address should be added to the remote system

#### Adding Remote System:

To configure a remote system find the part:

```
// The list of the known DICOM modalities
"DicomModalities" : {
  /**
   * Uncommenting the following line would enable Orthanc to
   * connect to an instance of the "storescp" open-source DICOM
   * store (shipped in the DCMTK distribution), as started by the
   * command line "storescp 2000". The first parameter is the
   * AET of the remote modality (cannot be longer than 16
   * characters), the second one is the remote network address,
   * and the third one is the TCP port number corresponding
   * to the DICOM protocol on the remote modality (usually 104).
  */
  // "sample" : [ "STORESCP", "127.0.0.1", 2000 ]
```

A new entry has to be added with the following parameters:

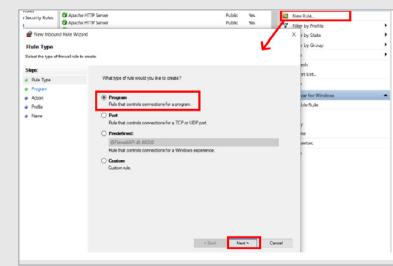
"<The name as it will appear in the UI>" : [ "<Remote AE title>", "<Remote IP address>", <remote port number> ]

### CONFIGURE THE WINDOWS FIREWALL WHEN PACS CONNECTIVITY IS ENABLED

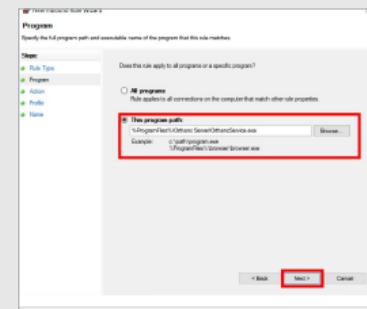
To make sure the incoming connections are not blocked by the local firewall add an exception for the Orthanc service to the local firewall.

Open the firewall configuration.

Select "New Rule", set the radio button to "Program" and press "Next".



Add the path to Orthancservice.exe and press "Next".



Make sure the option "Allow the Connection" is enabled and press next.

Typically, domain should be enabled.  
Press "Finish" to close the wizard.

