WATCHMAN™ TruPlan™
CT IMAGING SOFTWARE

Boston Scientific
Advancing science for life™
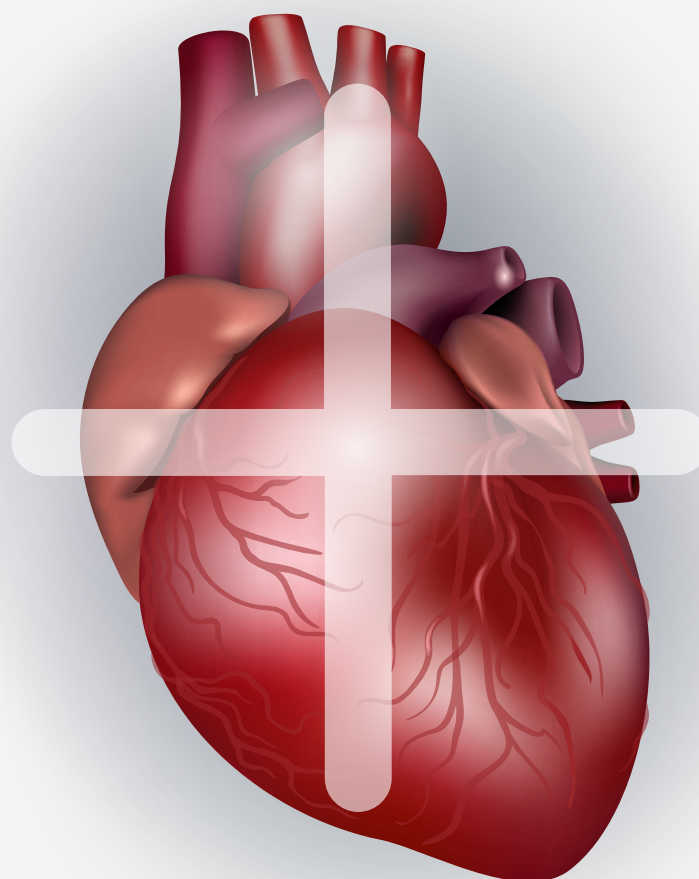
circle
CARDIOVASCULAR
IMAGING

INSTALLATION AND CONFIGURATION GUIDE

AUGUST 2021

VERSION 1.1

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.

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**.

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

Technical Support

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

North America
Circle Cardiovascular Imaging Inc.
1100, 800 5th Avenue SW Calgary
Alberta, Canada, T2P 3T6
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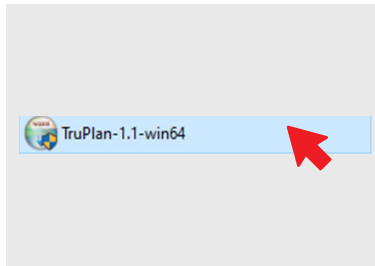**Report a problem:** support@circlecvi.com
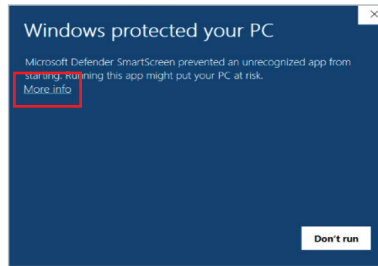**Website:** www.circlecvi.com

Installation of WATCHMAN TruPlan

Download the latest version of WATCHMAN TruPlan at www.circlecvi.com/watchman-truplan. Version numbers can vary as minor updates can occur.
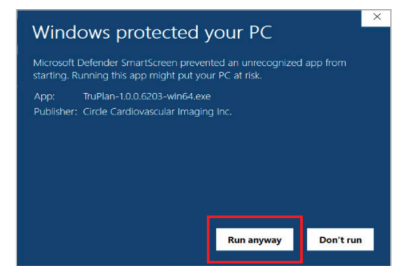
1 To start the installation, **double click the TruPlan icon.** *Version number may vary.*
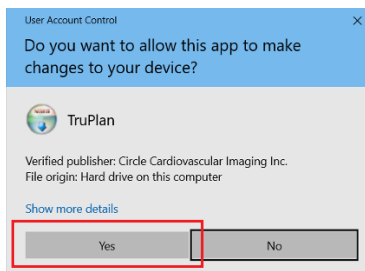
2 Windows defender may show this SmartScreen window. **Click on "More info".**
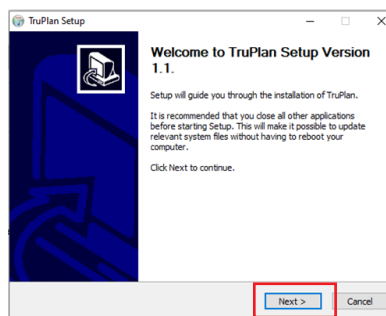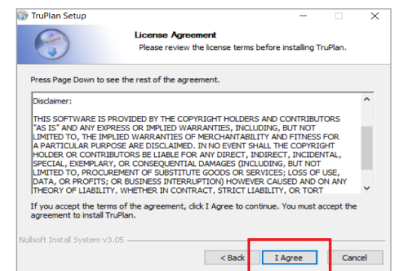
3 **Click the "Run anyway"** button.

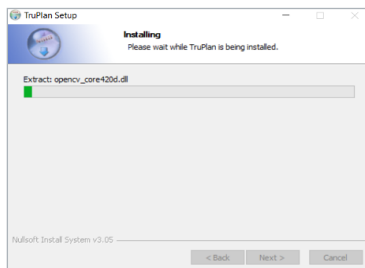**4** In the next dialog **click "Yes"** to allow the setup to start.
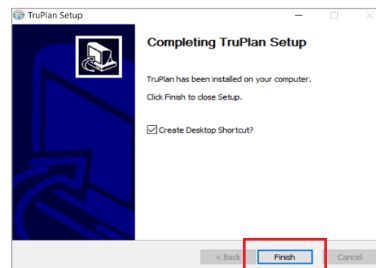
5 **Select "Next"** in the welcome screen.

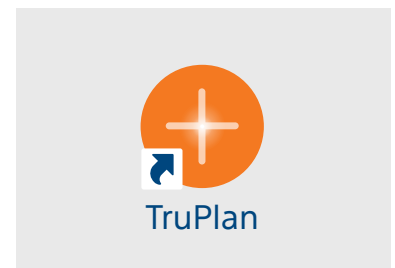**6** **Press "I agree"** in the license agreement dialog.

7 Wait for the installer to finish installing the software.
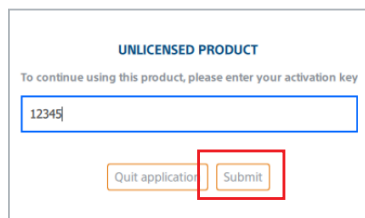
8 **Press "Finish"** to complete.

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

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

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.

Un-installing TruPlan

Open the Apps & Features page of Windows (Select Start > Settings > Apps > Apps & features)
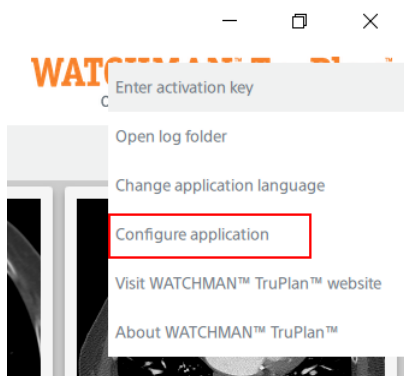
From the list of installed applications, select TruPlan, and select Uninstall. Follow the instructions in the uninstall wizard till the Application is removed.
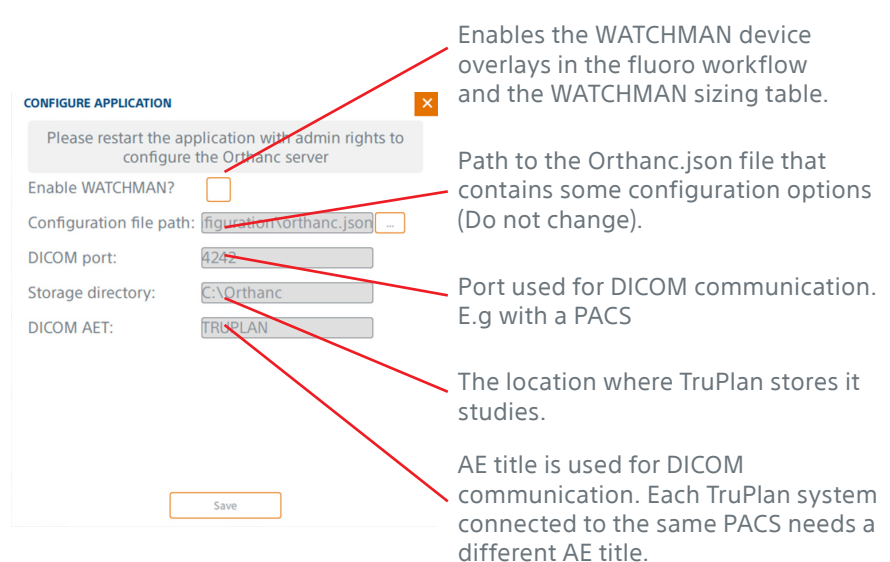
Repeat these steps for Orthanc.

To remove all patient data delete the Orthanc storage directory, typically C:\Orthanc

Configuration Options

Open the configuration options by right clicking the WATCHMAN TruPlan logo in the top right corner of the application and select: Configure application
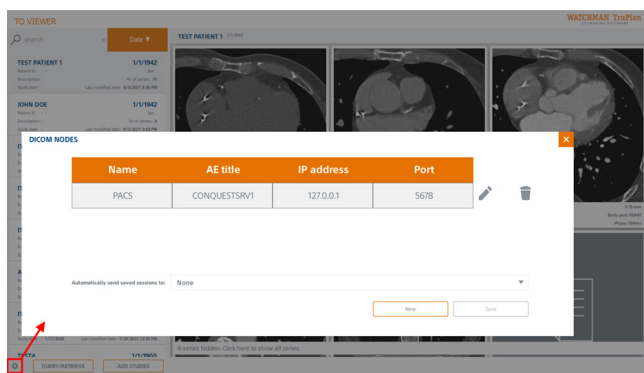

Most of the settings require administrative privileges, to change those start TruPlan using the option "Run as administrator"

Enables the WATCHMAN device overlays in the fluoro workflow and the WATCHMAN sizing table.

Path to the Orthanc.json file that contains some configuration options (Do not change).

Port used for DICOM communication. E.g with a PACS

The location where TruPlan stores it studies.

AE title is used for DICOM communication. Each TruPlan system connected to the same PACS needs a different AE title.

Setting up DICOM communication

To open the DICOM node configuration dialog, press the "gear" icon in the lower left of the application.

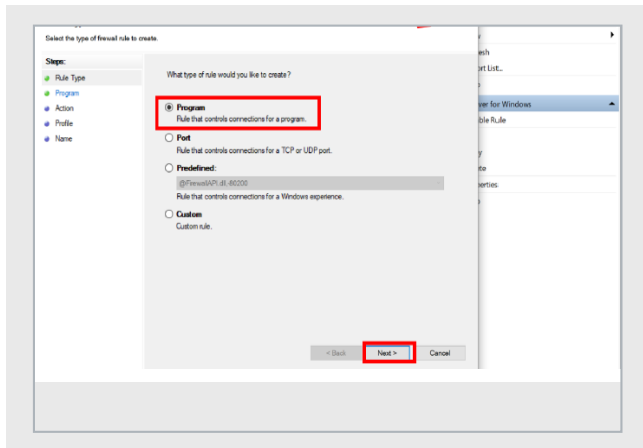Click new to add a new DICOM node and fill in the fields.

When a destination is selected in the dropdown list next to "Automatically send saved sessions to", each time a user saves a session in the application, this session will automatically be sent to the remote system

The PACS administrator will need the IP address, DICOM port and AE title of the TruPlan system.
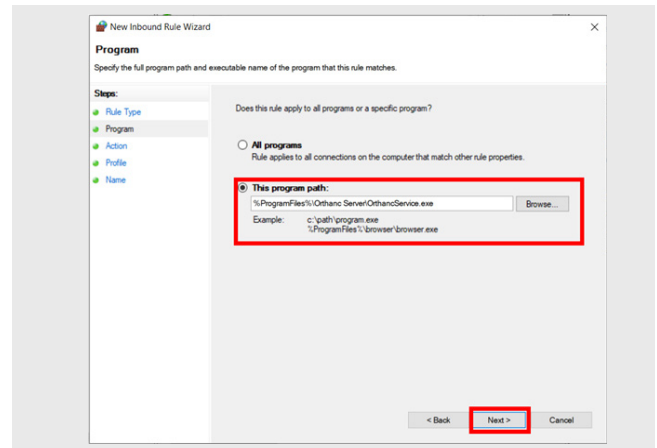
Configure the windows firewall

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

1 Open the firewall configuration.
Select "New Rule", set the radio button to "Program" and press**"Next".**

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

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

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

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