



AIS 3.2.1

INSTALLATION GUIDE

FOR X-MIND TRIUM

PAN/CEPH READY/CEPH VERSION

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1) INTRODUCTION

This document contains the setup and the configuration of the Workstation with Acteon Imaging Suite 3.2.1 software or higher for X-MIND trium Pan /Ceph tomograph.

This manual is intended only for new installation of the Acteon Imaging Suite 3.2.1 software on a brand-new X-MIND trium, and not for the upgrade of a previous version.

Please follow all the instruction included in this manual to correctly install the new version of the software.

Changing some options in the installation could affect the right functionality of Acteon Imaging Suite software, generating some faults.

2) COMPONENT PROVIDED WITH X-MIND TRIUM PAN/CEPH

I.1. USB STICK

1. DOCUMENTATION
2. AIS INSTALLATION 3.2.1 (This folder contains AisSetupManager_v3.2.1.exe)
3. NEW HAMAMATSU DCAM SETUP
4. TRIUM CONFIG INSTALLER
5. DRIVERS INTEL Gbit

I.2. PC 2D (OPTIONAL)

We can provide the PC 2D with X-MIND trium PAN/CEPH, that is an optional.

PC 2D can be provided with the following possibilities:

1. PC 2D customized for specific SN of X-MIND trium
Check label on PC 2D: label must report the same SN as X-MIND trium;
2. PC 2D NOT customized
Check label on PC 2D: label must report the generic SN XT00000C;

I.3. INTEL CT 1000 PRO (OPTIONAL)

INTEL CT 1000 PRO is not included (optional). Necessary for installation on PC supplied by customers

3) WORKSTATION MINIMUM REQUIREMENTS

IT'S MANDATORY TO RESPECT WORKSTATION MINIMUM REQUIREMENTS

Please, take care about workstation minimum requirement to avoid faults, errors, malfunctions and/or problem during the installation, connection and use of X-MIND trium.

THE CHOICE OF WORKSTATION/SERVER FOR X-MIND TRIUM PAN/CEPH, OR OTHER VERSIONS OF X-MIND TRIUM PROVIDED WITHOUT WORKSTATION, IS UNDER CUSTOMER RESPONSIBILITY. A WRONG CHOICE, WITHOUT RESPECTING MINIMUM REQUIREMENT, WILL NOT BE UNDER ACTEON GROUP RESPONSIBILITY.

WORKSTATION:

- MAC Workstations are not supported
- Virtual machines installation is not tested and not permitted

OPERATIVE SYSTEM:

- Microsoft Windows 7 64 bits
- Microsoft Windows 10 professional 64 bits

HARDWARE REQUIREMENTS:

- Processor: INTEL i5 or superior
- RAM: 8 GB
- Hard Disk: 1TB 7200 rpm or superior
- Network Cards: 2 LAN network boards needed: one of them can be already present on the motherboard and can be used only for network access. The second one MUST be **INTEL CT 1000 pro** (provided as **OPTIONAL** for X-MIND trium PAN/CEPH) and MUST be used for the connection between X-MIND trium and workstation

Avoid using a wireless network card on the workstation: fast connection network (LAN type) are needed to share the patient exams with the client PCs. Due to this, a Wi-Fi network card could be too slow to transfer patient exams with client PCs.

- Graphic card: OPEN GL 2.1 compatible (suggested an NVIDIA GT/GTX)
- Monitor: minimum width 1600 x height 1024 it is suggested to use higher resolutions for optimal planning (full HD: 1920 x 1080)

ADMINISTRATION RIGHTS:

- Always take care to be the administrator of the workstation and log in as the same user of the Acteon Imaging Suite installation.

OTHER SOFTWARE:

- If you install an antivirus or firewall or internet security in the workstation, take care of these specific:
 - All the Acteon Imaging Suite processes have to be excluded in the AV exclusion list
 - All the ports used by Acteon Imaging Suite Server (from 51000 to 51020, and 6543) have to be opened in the firewall
 - All the ports 6178, 9229, 9779 have to be opened to permit the communication between X-MIND trium and Workstation
 - If you face other problems or you are not able to configure AV or firewall, please disable them.

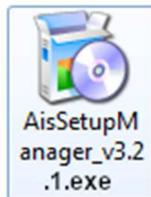
4) AIS SETUP MANAGER



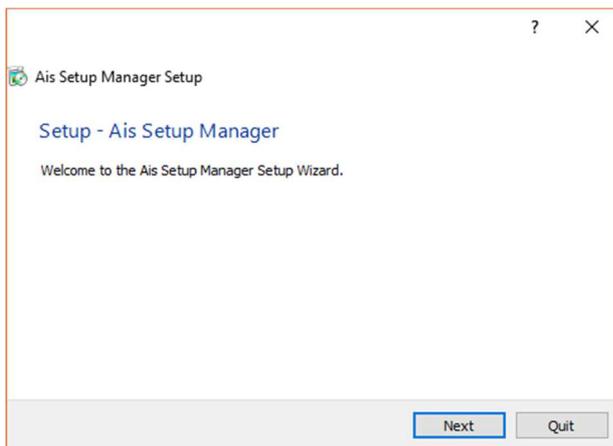
This setup will install the Acteon Imaging Suite “Base Installer”, the “Server Installer” and the “Client Installer”. These installations are needed to properly set the X-MIND trium.

-If you have the label on the PC 2D with SN **XT000000C**, you can pass to Chapter 10.

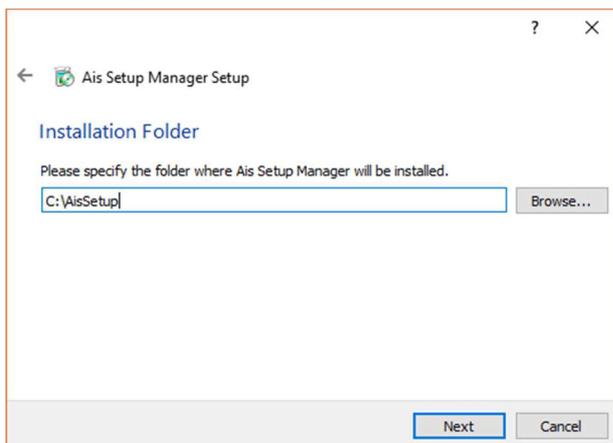
-If you have the label on the the PC 2D the same SN of the X-MIND trium you can pass to Chapter 11.



Launch the AisSetupManager installer.

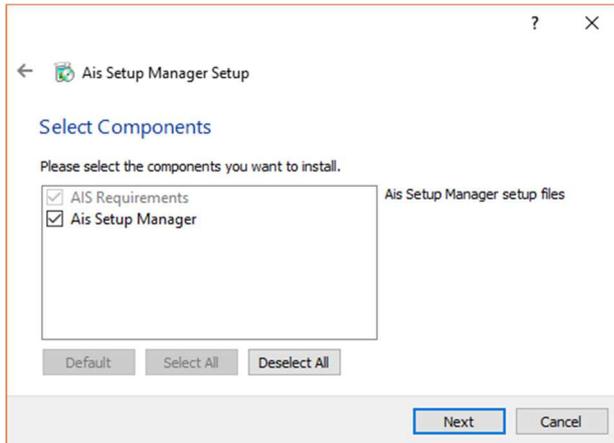


Setup window will appear, click on “Next” to proceed.

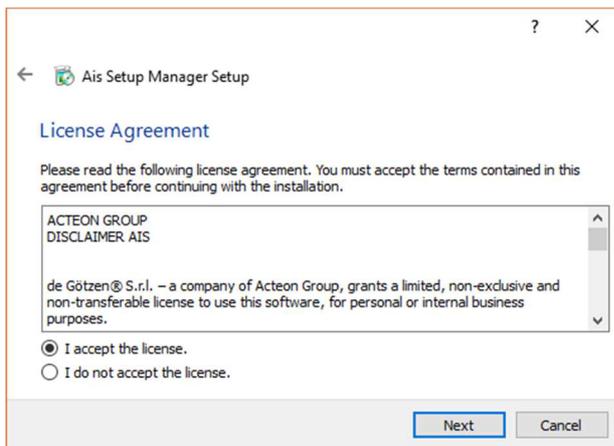


Don't change the destination folder and click “Next”.

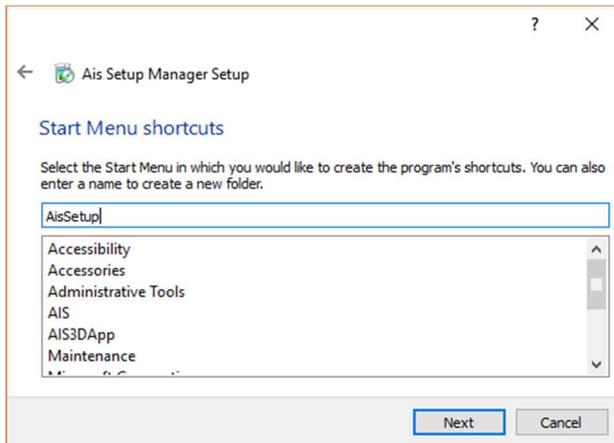
ENGLISH



Click “Next”. “Ais Setup Manager” checkbox has to be flagged.

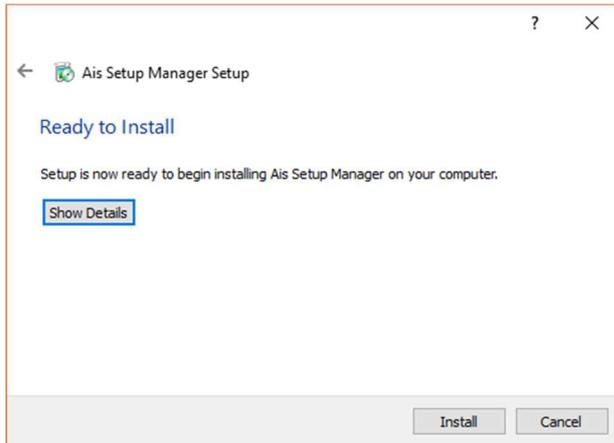


Accept the license agreement then click on “Next”.

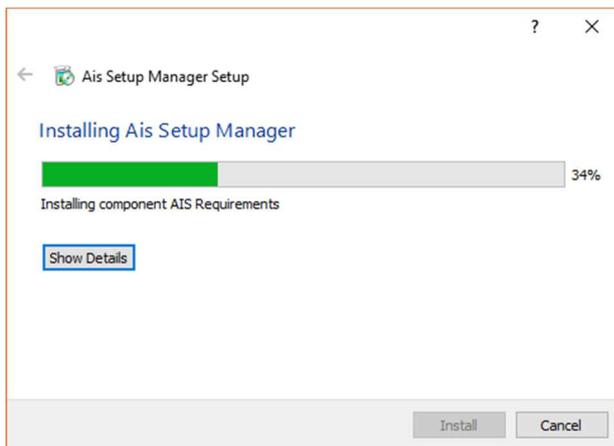


Click “Next”.

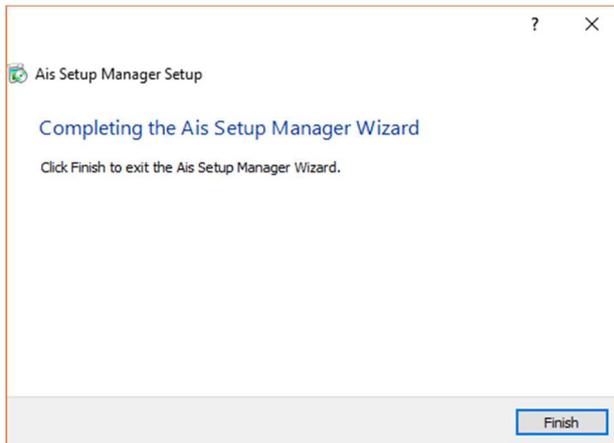
ENGLISH



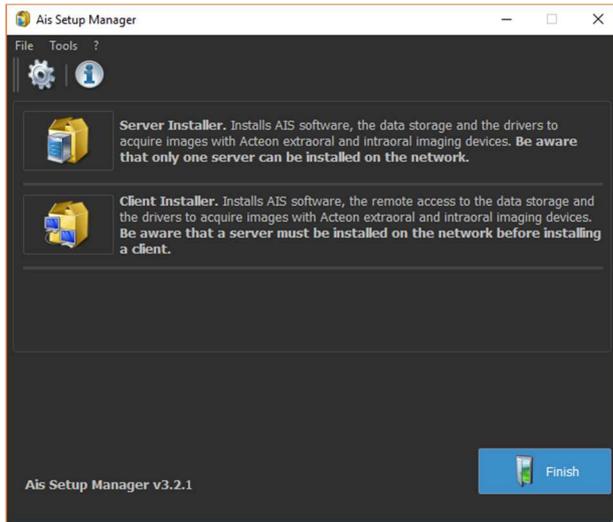
Click on “Install” to continue.



Wait the completion of the installation

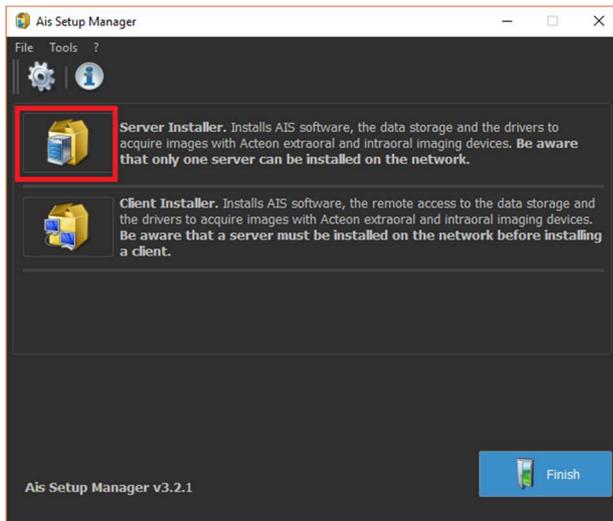


Click “Finish”.

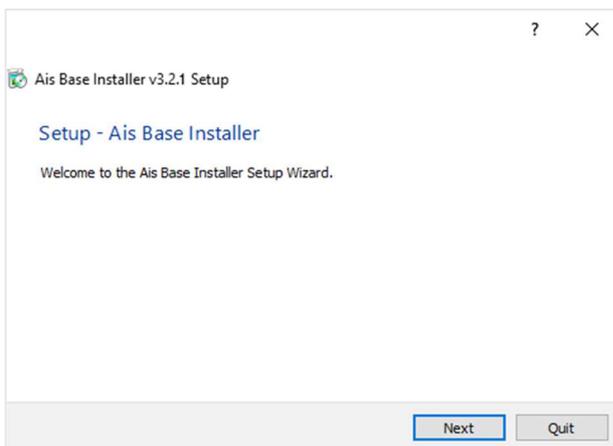


The screen as in the picture will appear.

5) SERVER INSTALLER

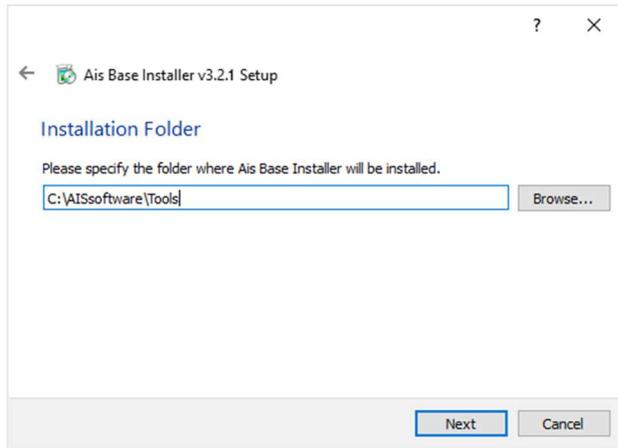


Click on "Server installer".

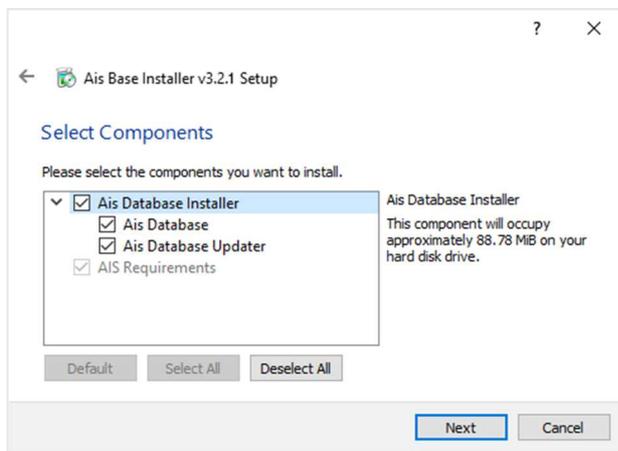


The setup window for the Database installation will appear, click on "Next" to proceed.

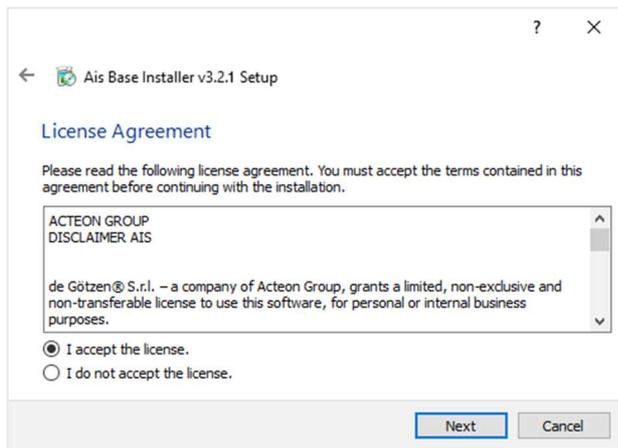
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Don't change the destination folder and click "Next".

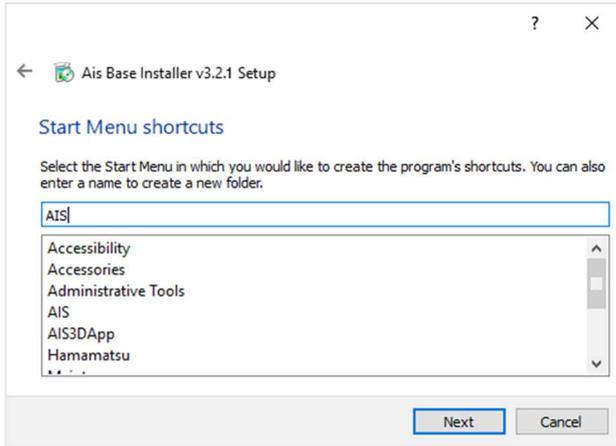


Select from the list the mandatory components needed for the Database installation: Ais Database and Ais Database Updater must be selected. Click on "Next".

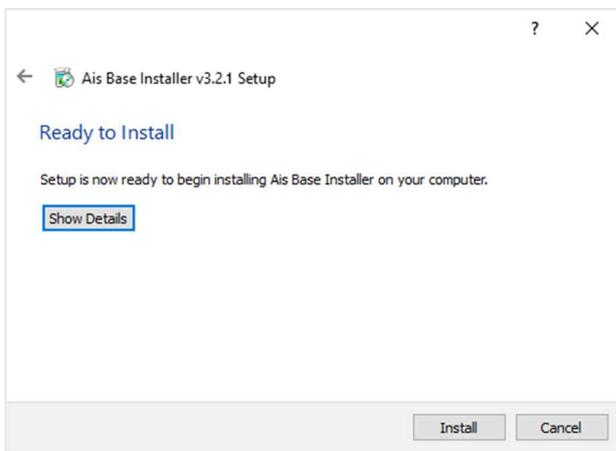


Accept the license agreement then click on "Next".

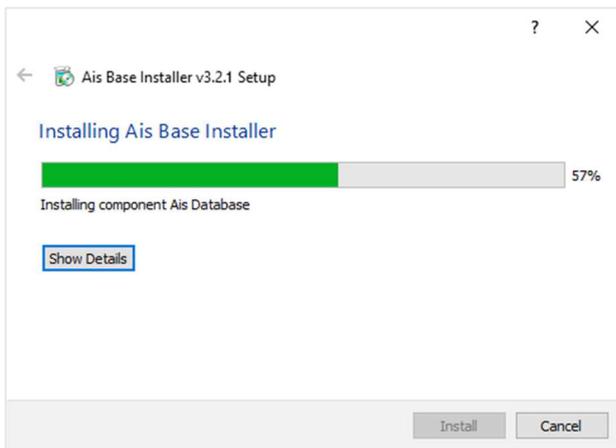
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Click "Next".

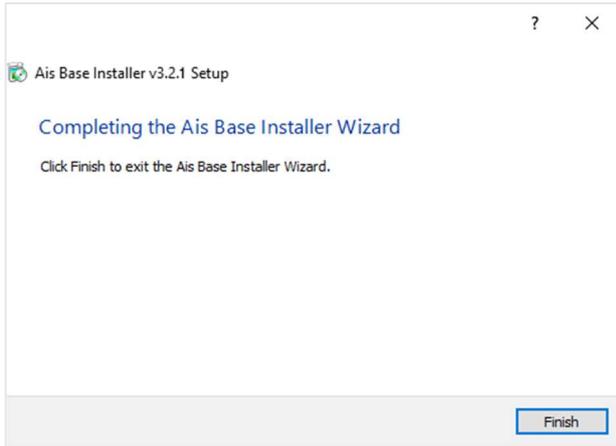


Click on "Install" to continue.



Wait the completion of the installation.

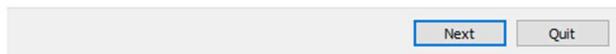
ENGLISH



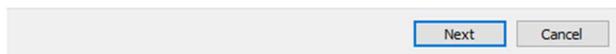
Click “Finish”.



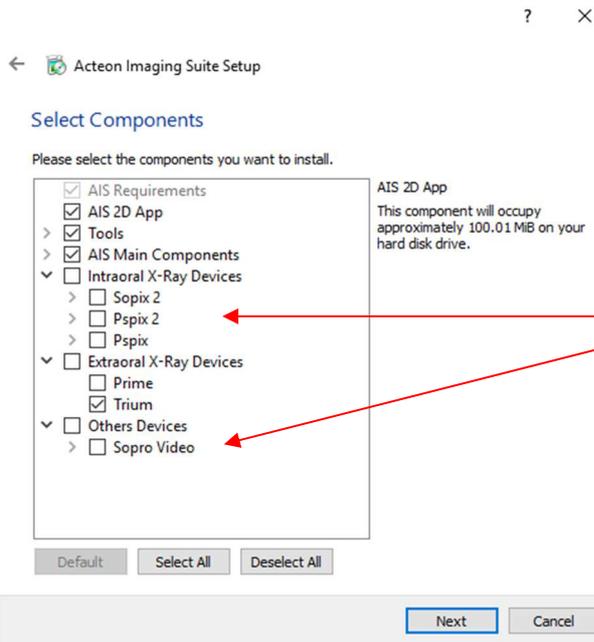
Following the Database installation, the setup window for AIS software will appear, click on “Next” to proceed.



Don't change the destination folder and click “Next”.



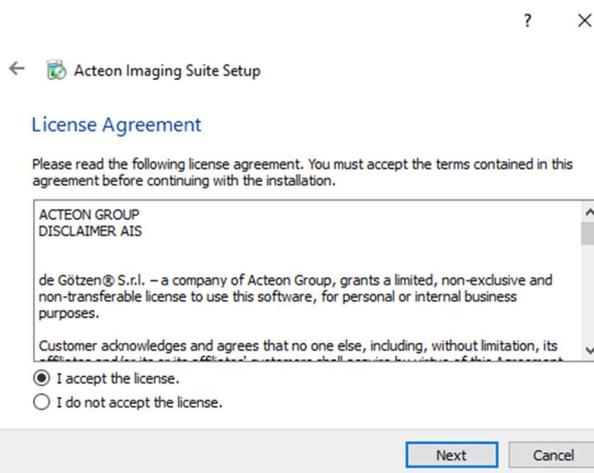
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Select from the list the drivers needed for installation: Tools, AIS Main Components and Trium drivers are mandatory.

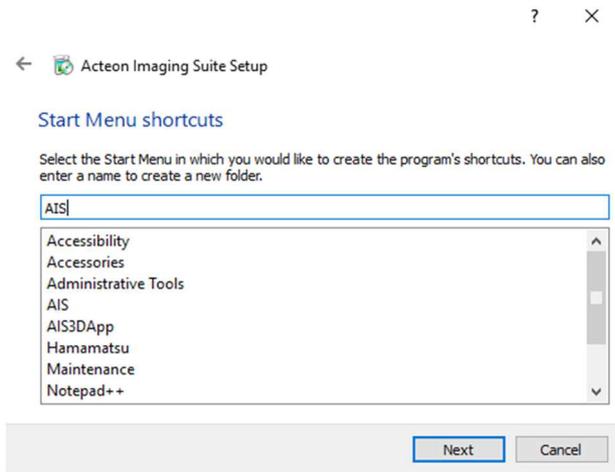
Check these options if you want to install other Acteon equipment connected to the workstation (Intraoral X-Ray Devices and Other Devices).

Click on "Next".

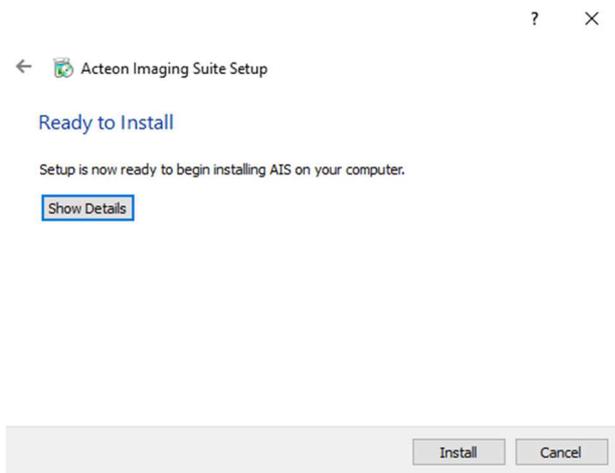


Accept the license agreement then click on "Next".

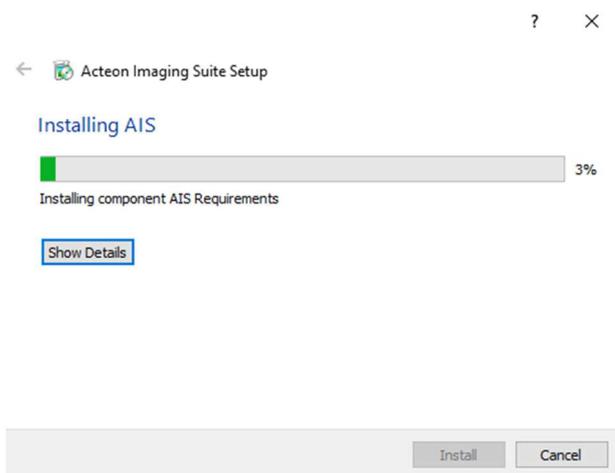
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Click "Next".

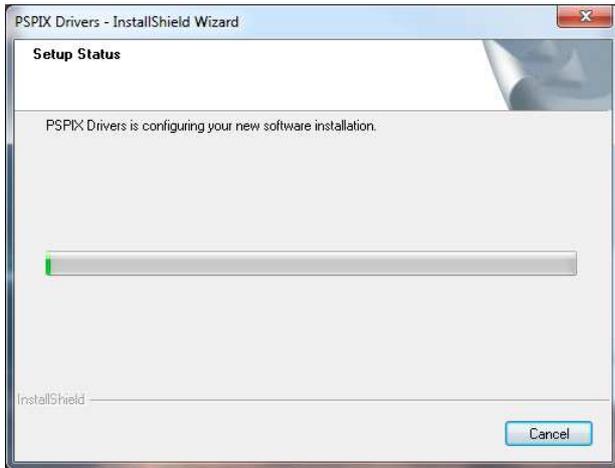


Click on "Install" to continue.

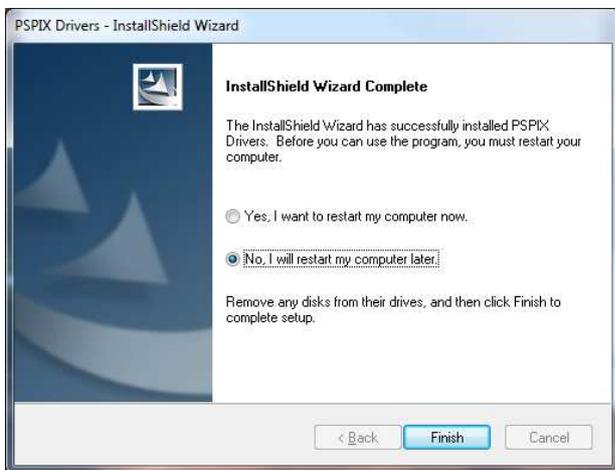


Wait the completion of the installation.

ENGLISH



During the installation, due to the other Acteon products options checked, the setup will install the selected drivers.



At the end of the drivers installation, the software will propose you to restart the PC: **DO NOT RESTART IT**, select 'Restart later' and continue the installation.

? X

Acteon Imaging Suite Setup

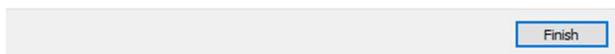
Completing the AIS Wizard

Click Finish to exit the AIS Wizard.

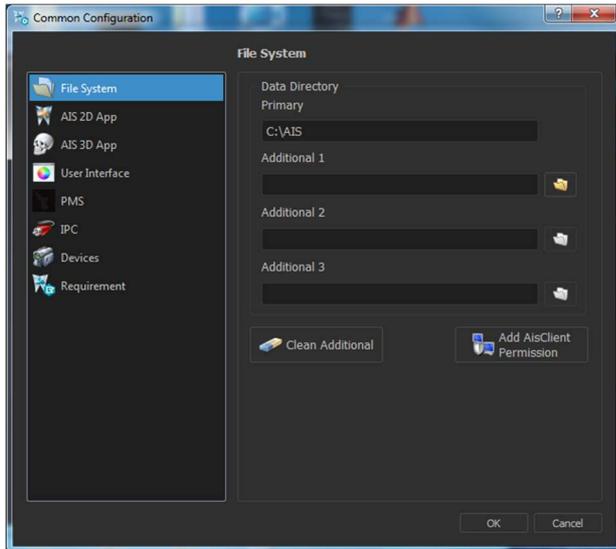
You must reboot your computer for the changes to take effect.

Reboot now

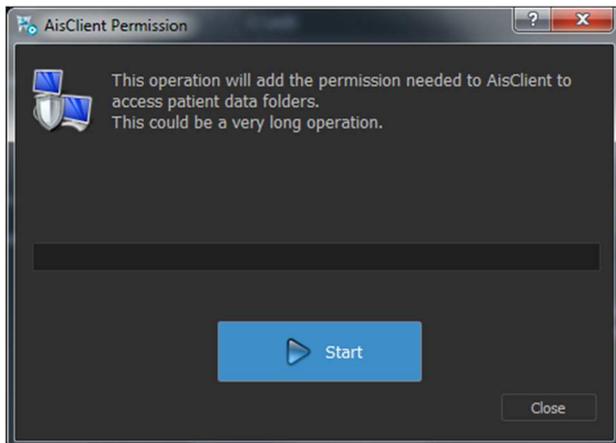
Click "Finish" to complete the process.



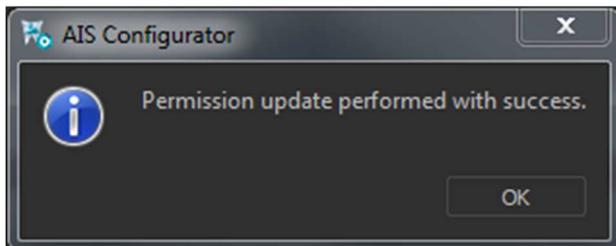
ENGLISH



To ensure read-write rights for the network users, open the AIS Configurator application, then go on Configurator -> Common Configurator -> File System and click on “Add AisClient Permission” button.

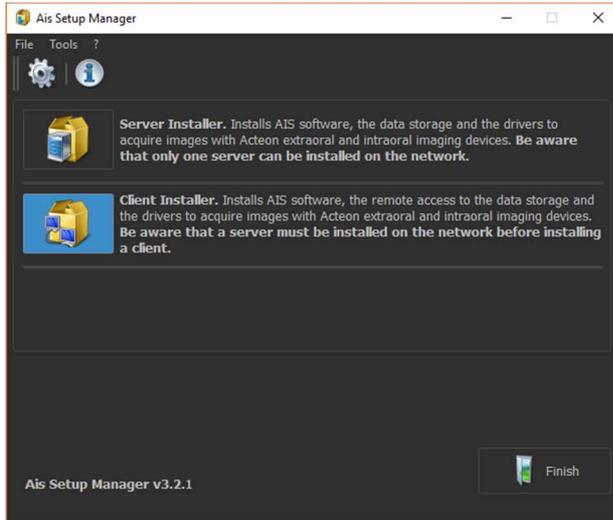


This can take a while depending on the size of the Database.

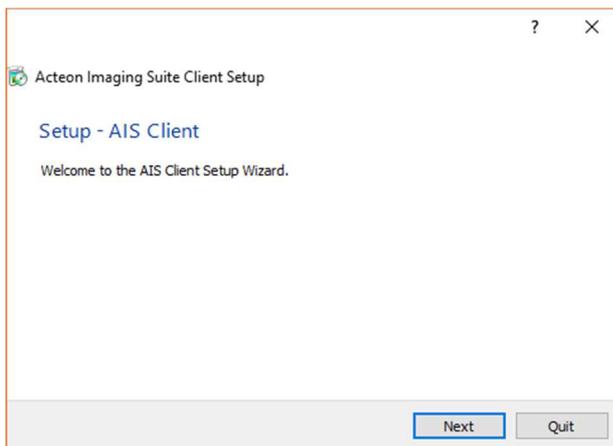


Click on “OK” once finished.

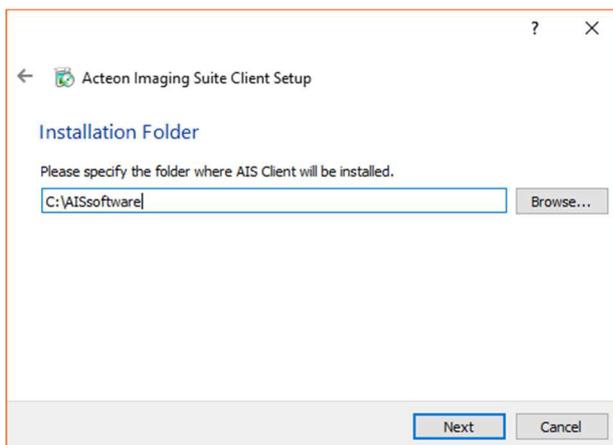
6) CLIENT INSTALLER



Click on “Client installer”.

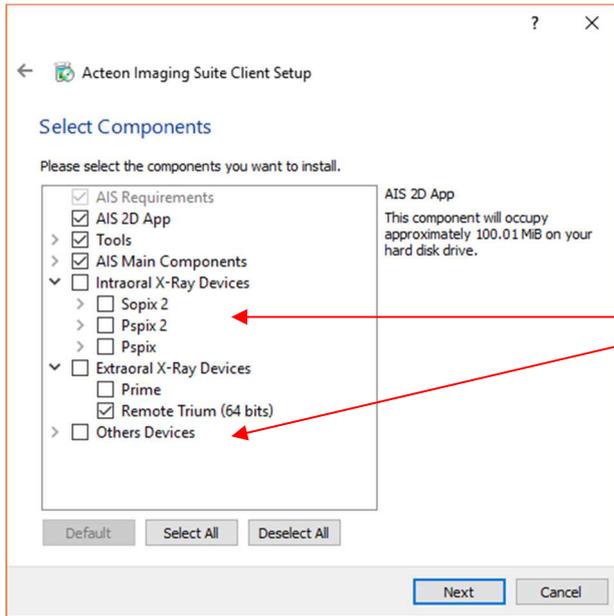


Setup window will appear, click on “Next” to proceed.



Don't change the destination folder and click “Next”.

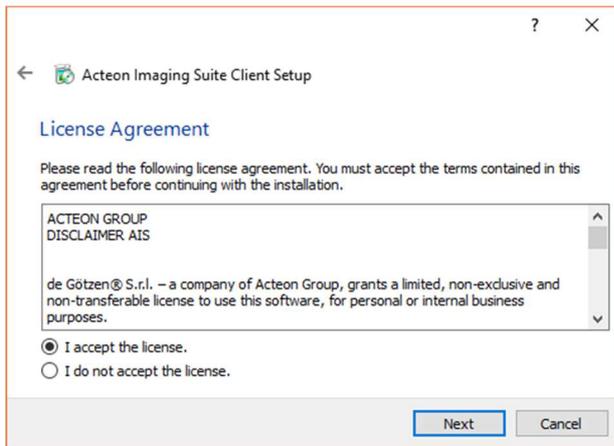
ENGLISH



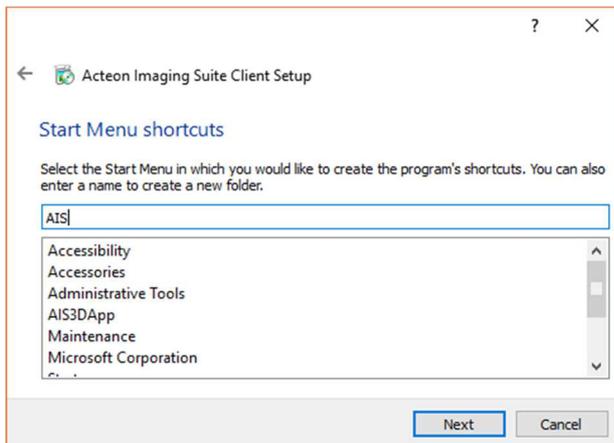
Select from the list the drivers needed for installation: Tools, AIS Main Components and Trium drivers are mandatory.

Check these options if you want to install other Acteon equipment connected to the workstation (Intraoral X-Ray Devices and Other Devices).

Click on "Next".

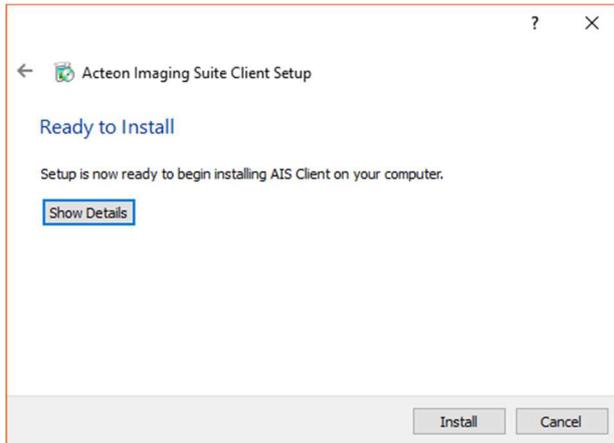


Accept the license agreement then click on "Next".

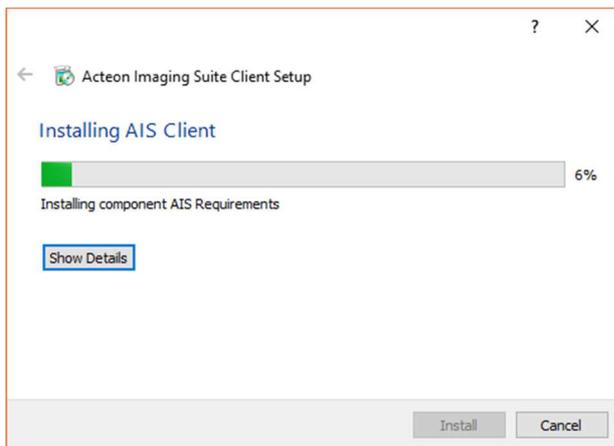


Click "Next".

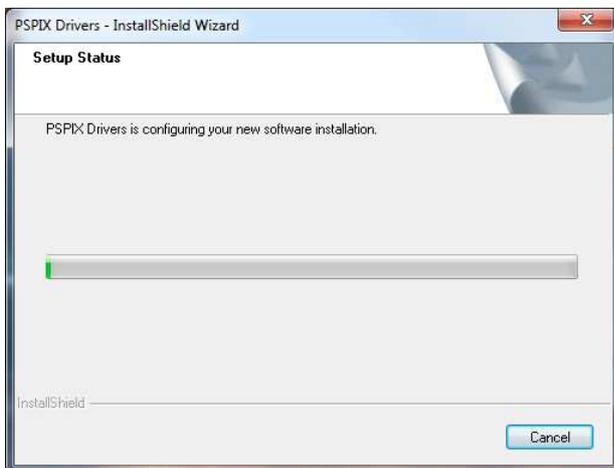
ENGLISH



Click on “Install” to continue.

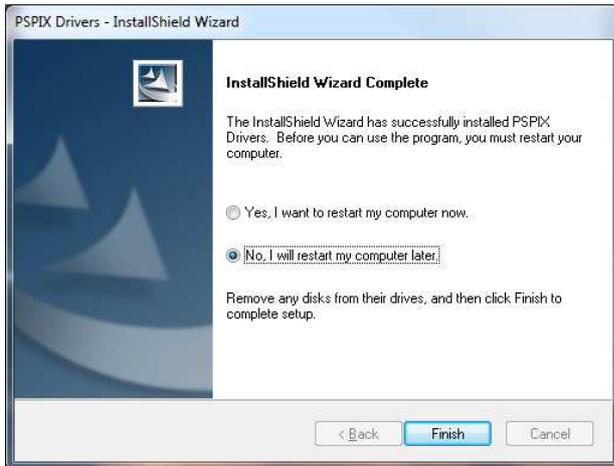


Wait the completion of the installation.

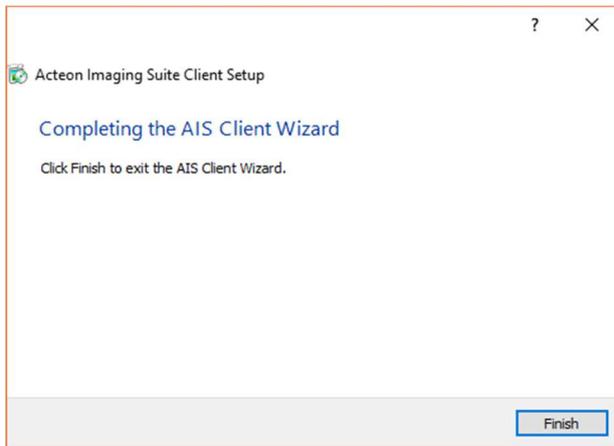


During the installation, due to the other Acteon products options checked, the setup will install the selected drivers.

ENGLISH



At the end of the drivers installation, the software will propose you to restart the PC: **DO NOT RESTART IT**, select 'Restart later' and continue the installation.

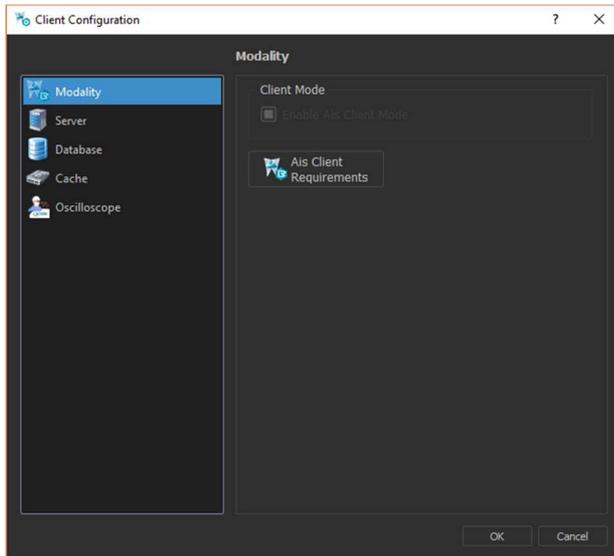


Click "Finish" to complete the process. At the end of the installation, reboot your PC.

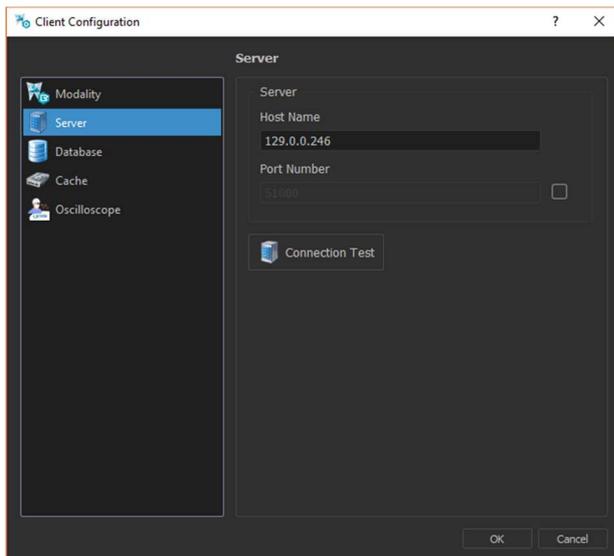
After the installation is completed, refer to chapter 7 to configure the Client.

7) AIS PUBLIC CONFIGURATOR

Take care of the hardware error (which are critical for the correct functionality of the software).



At the end of the installation, AIS Client Configurator will automatically open. Click on Server tab.



To configure the server location, insert IP address.

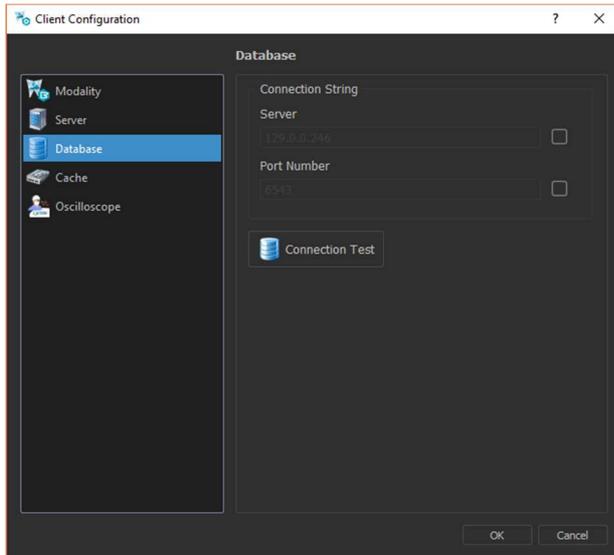
Take care of the IP class, that needs to be the same for both the machines.

Leave blank field for port used (default 51000) unless the port is already used by other services/processes in the network.

Check connection (clicking on "Connection Test") and if successful proceed with next step.

Click on Database tab.

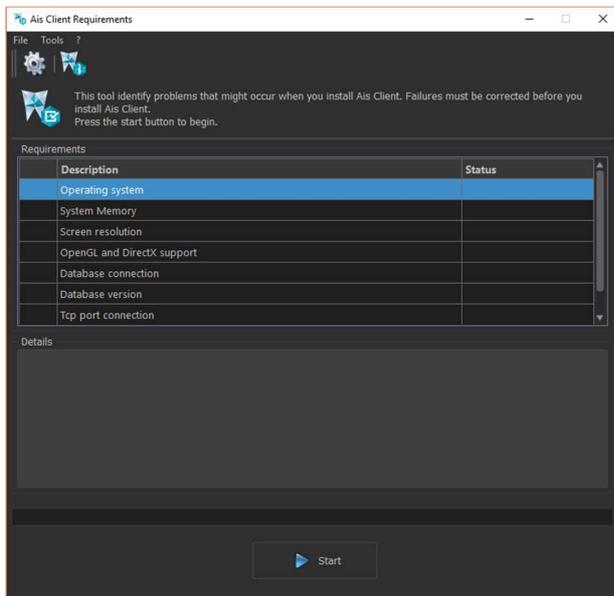
ENGLISH



Leave blank field for port used (default 6543) unless the port is already used by other services/processes in the network.

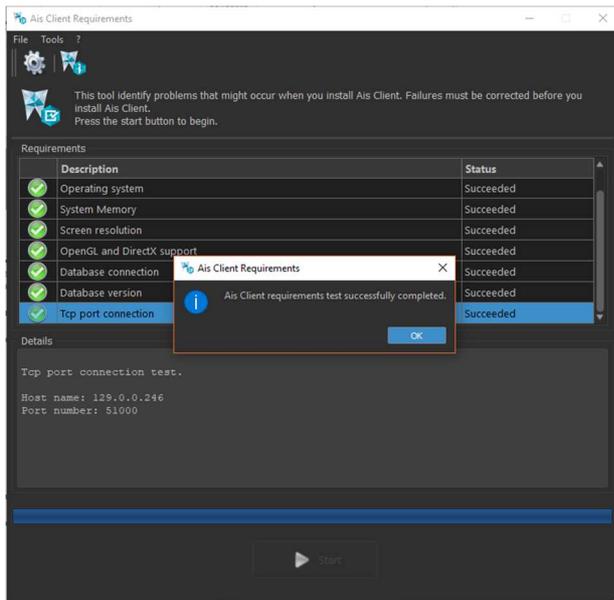
Check connection (clicking on “Connection Test”) and if successful proceed with next step.

Click on Modality tab.



Click on AIS Client Requirement to check the PC hardware configuration. Click “Start” button.

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At the end of the test, the tool will give you a response about the efficiency of the machine and some warning (if needed) about the connection with the server or the database.

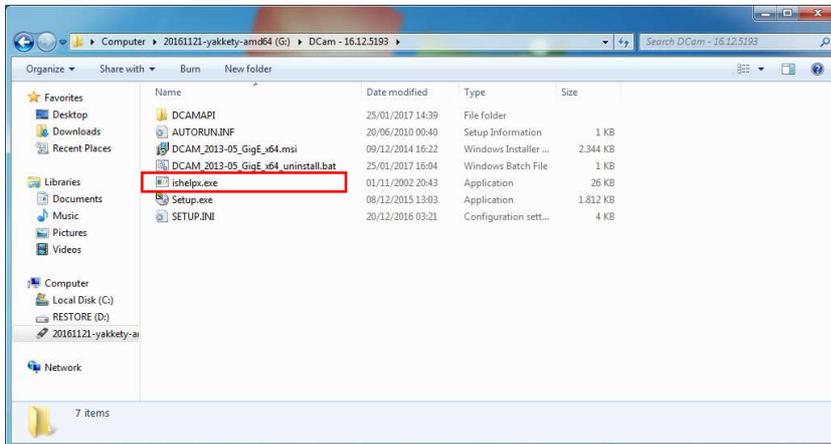
Avoid to use a wireless network card on the client: fast connection network (LAN 1 Gbit/s suggested) is needed to share the patient exams with the clients PCs. Due to this, a WiFi network card could be too slow to transfer patient exams with clients PCs.

If you install an antivirus or firewall or internet security in the workstation, take care of these specific:

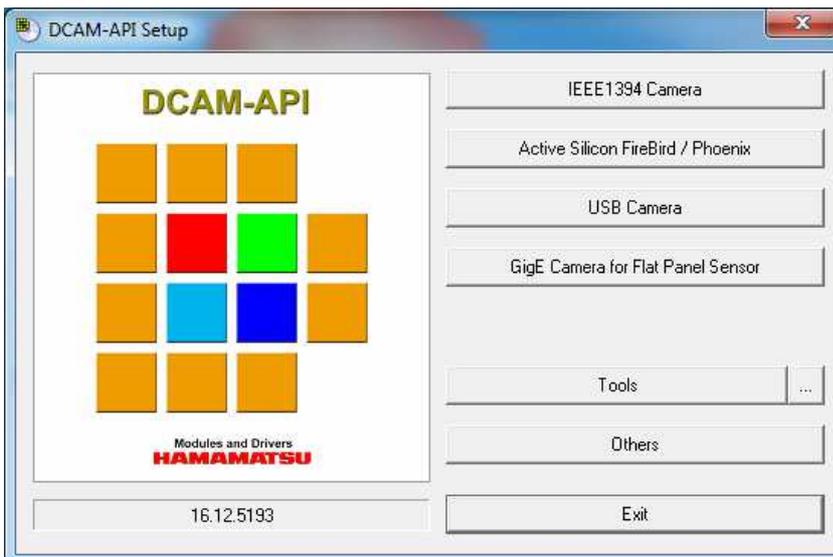
- All the Acteon Imaging Suite processes have to be excluded in AV the exclusion list.
- All the ports used by Acteon Imaging Suite (from 51000 to 51020, and 6543) have to be opened in the firewall.
- If you face other problems or you are not able to configure AV or firewall, please disable them.

8) DCAM INSTALLATION

Install the new DCAM as following:

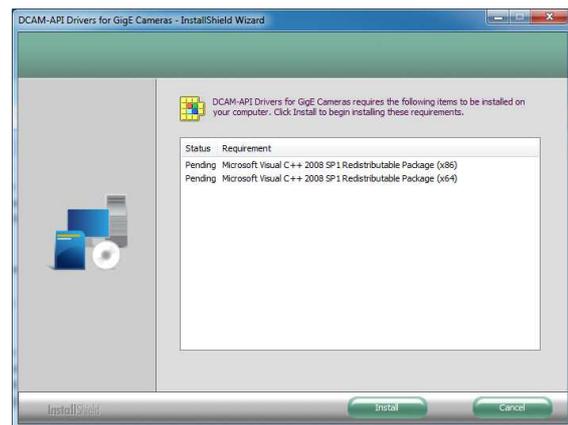
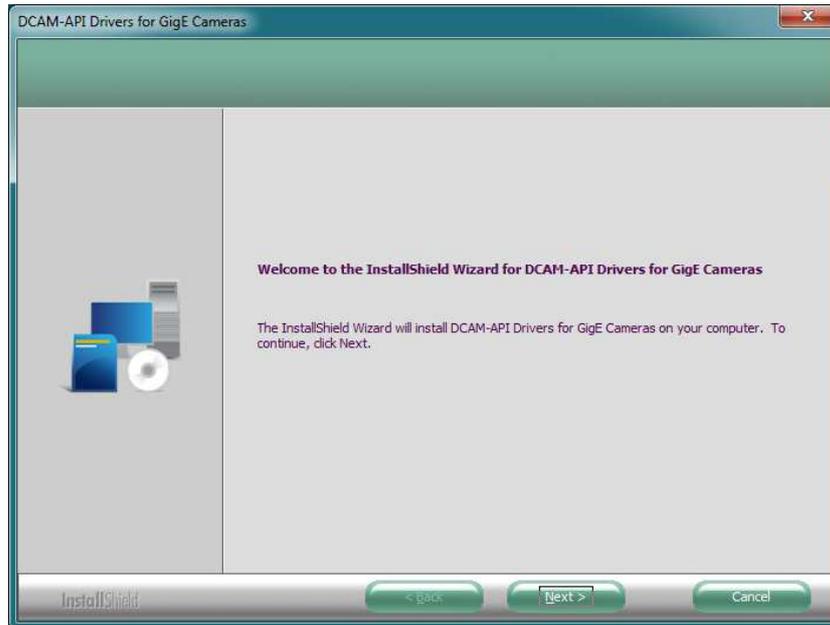


Launch from the provided USB stick /Hamamatsu/DCAM-API_ver.18.8.5609 folder file the SETUP executable.



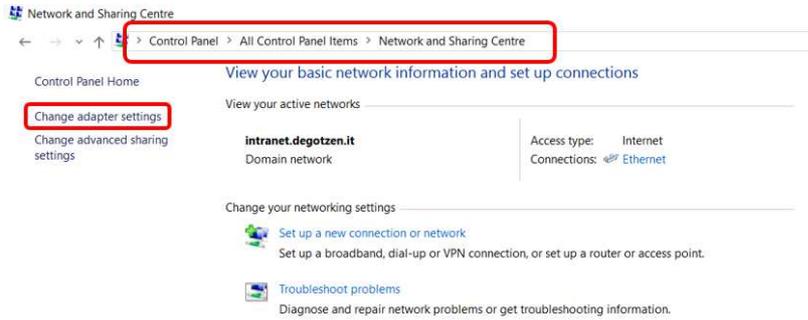
The setup application will allow you to choose the installation type: choose **GigE Camera for Flat Panel Sensor**, then click on “Next”, accept the License Agreement and click on “Install”.

ENGLISH

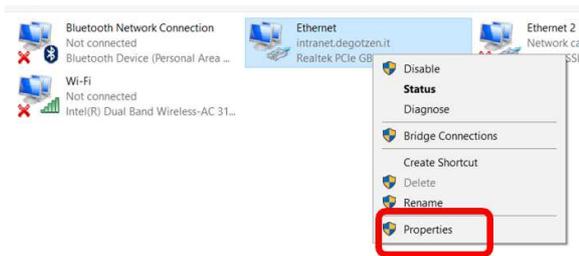


When the installation is finished, you don't need to set the configuration of the driver.

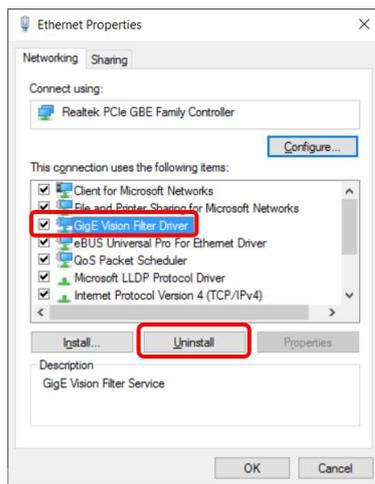
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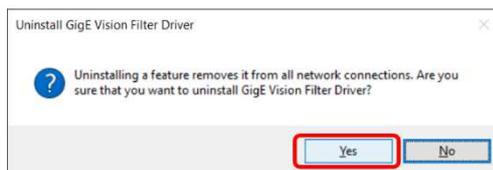
Following the installation, from “Control Panel – Network and Sharing Centre” select “Change adapter settings”.



Right click on a NIC (Network Interface Card) and select “Properties”.



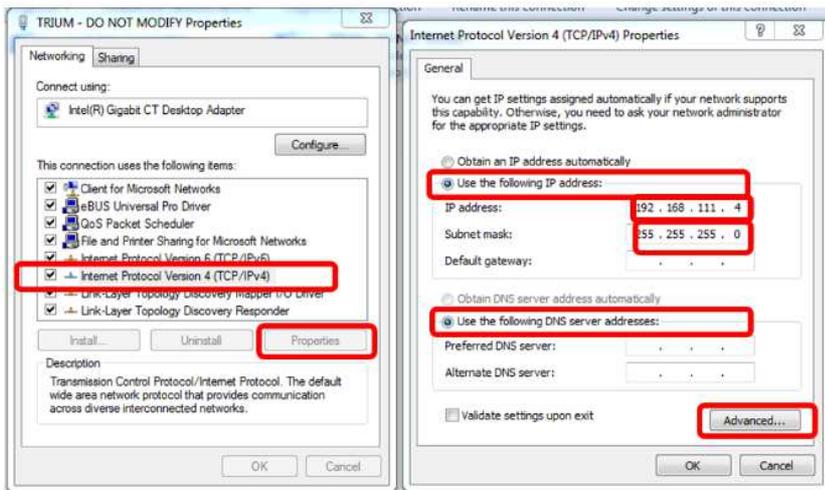
Select GigE Vision Filter Driver, click on “Uninstall”.



Confirm “Yes”.

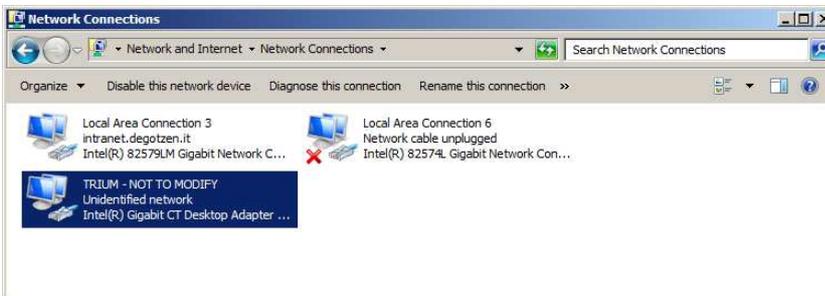
9) NETWORK CARD INTEL CT CONFIGURATION

1. Install from the provided USB stick the INTEL CT network driver.
2. From network connection properties set TCP/IP internet protocol with persistent IP address as follow:

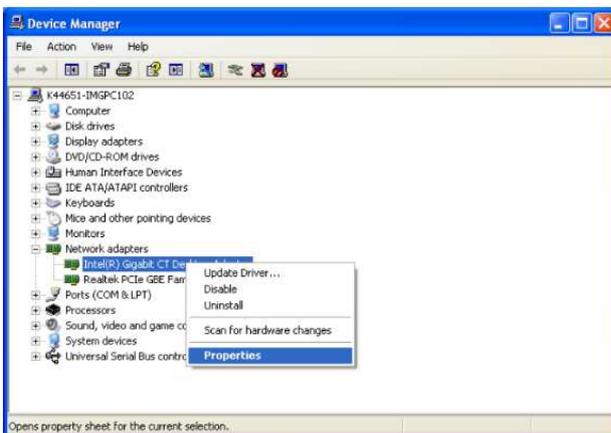


Set NIC IP address to
192.168.111.4

Set Subnet mask to
255.255.255.0

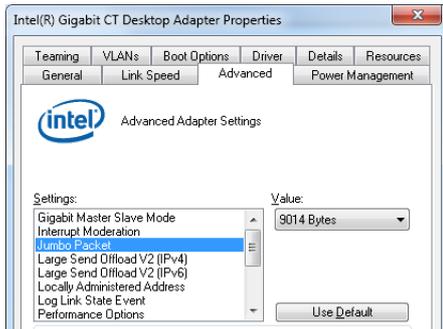


Rename the NIC connection to
the EUT as “**TRIUM – NOT TO
MODIFY**”.

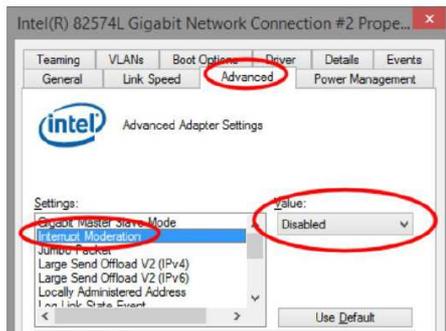


From **Control Panel** -> **Device Manager**
select the Network Interface Card you want to
setup (this is the NIC that will be exclusively
connected to X-MIND trium). Right click and
select “**Properties**”.

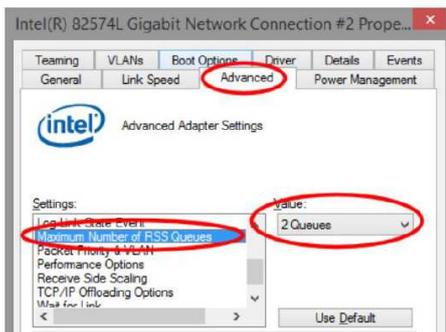
ENGLISH



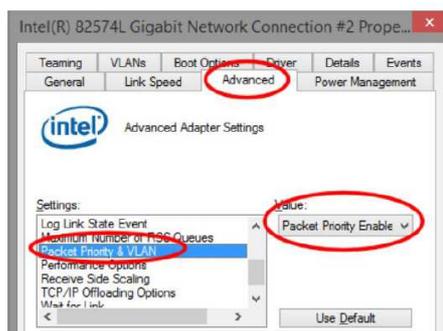
Set the following: **Advanced -> JUMBO PACKET to 9014 Bytes** and click **OK** to save changes.



Advanced -> Interrupt Moderation to DISABLED and click **OK** to save changes.

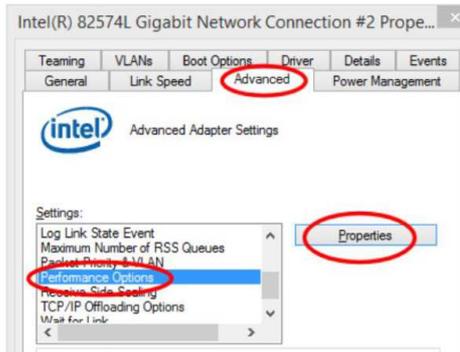


Advanced -> Max Number RSS Queues to 2 Queues and click **OK** to save changes.

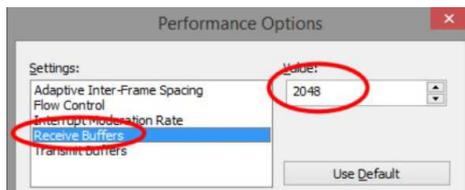


Advanced -> Packet Priority & VLAN to Packet Priority Enable and click **OK** to save changes.

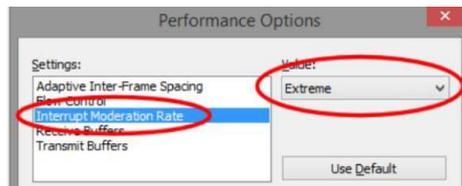
ENGLISH



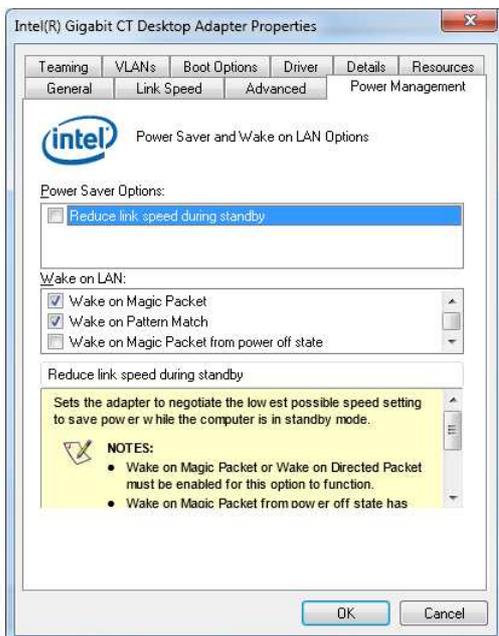
Advanced -> Performance Options -> Properties



Receive Buffers to 2048.



Interrupt Moderation Rate to **EXTREME**.

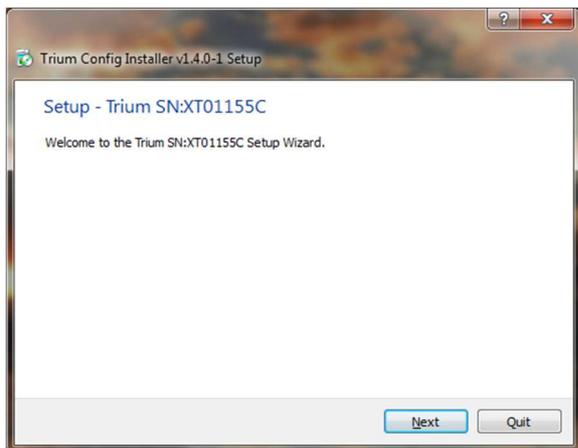


Set the NIC **Power Management** as follows: uncheck the **Reduce link speed during standby** in the **Power Saver Options** and click "OK" to save changes.

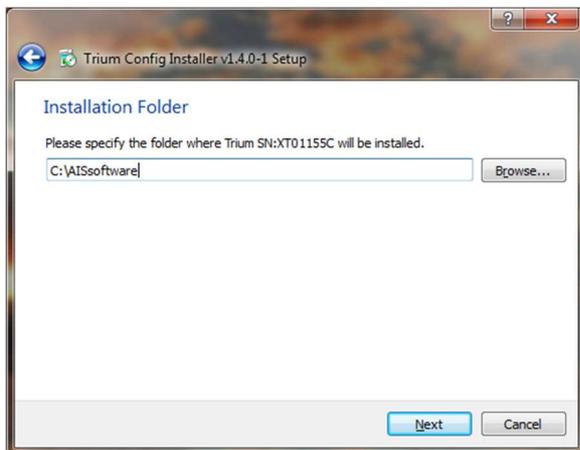
10) X-MIND TRIUM VARIABLE CONFIGURATION SERVICE TOOL

After the installation of Acteon Imaging Suite software, run this tool to transfer and configure the X-MIND trium variable data setting in the workstation. This operation is mandatory to have the X-MIND trium calibration data and factory test data saved in the workstation. Without this data setting, the machine will not be

Run TriumConfig_Installer_v1.4, double clicking on the setup file.



Click on “Next” to proceed with the installation path.

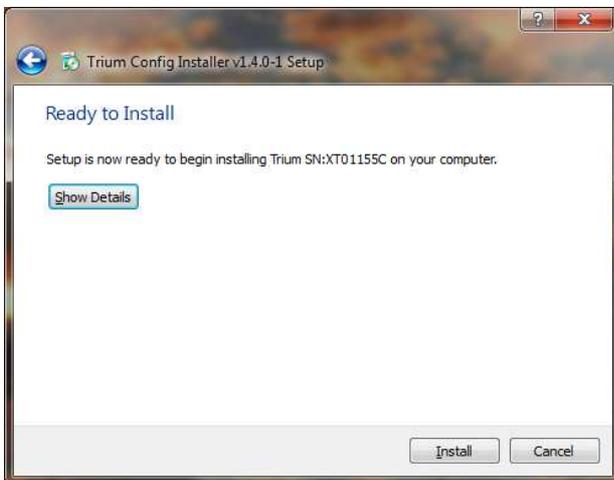


Don't change the installation path, or the equipment will not be functional.

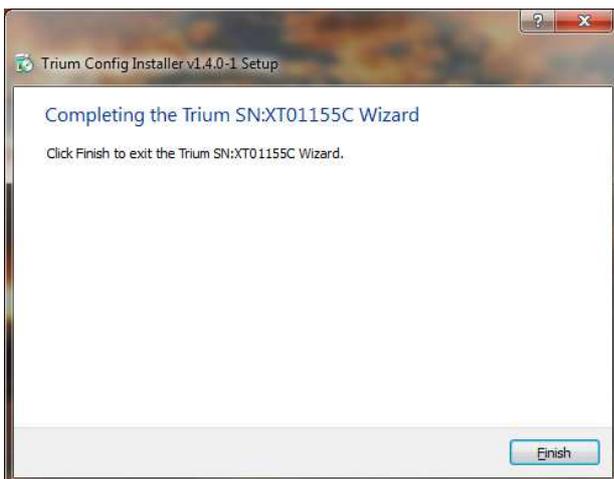
ENGLISH



Accept the License Agreement and click on “Next”.



Click on “Install” to start the installation.



Click on “Finish” to complete the installation.

11) CONFIGURATION AIS SERVICE FOR WORKSTATION USER

1. In Acteon Imaging Suite software, you don't have to configure the Acteon Imaging Suite service, because it's configured during the installation of the software.
2. **Take care to log in with the same user of the installation** to have the right access to the service pre-installed.

12) CEPH INSTALLATION ON A CEPH READY TRIUM

1. Please refer to 'SERVICE MANUAL' for the CEPH hardware connection, configuration and calibration.
2. If you need more information, please contact AFTER SALES ITALY department.

13) AIS LOG MANAGER

AIS LOG MANAGER is the utility which allow you to export the log file from X-MIND trium workstation, in order to evaluate the functionality of the equipment, error messages or eventual failures.

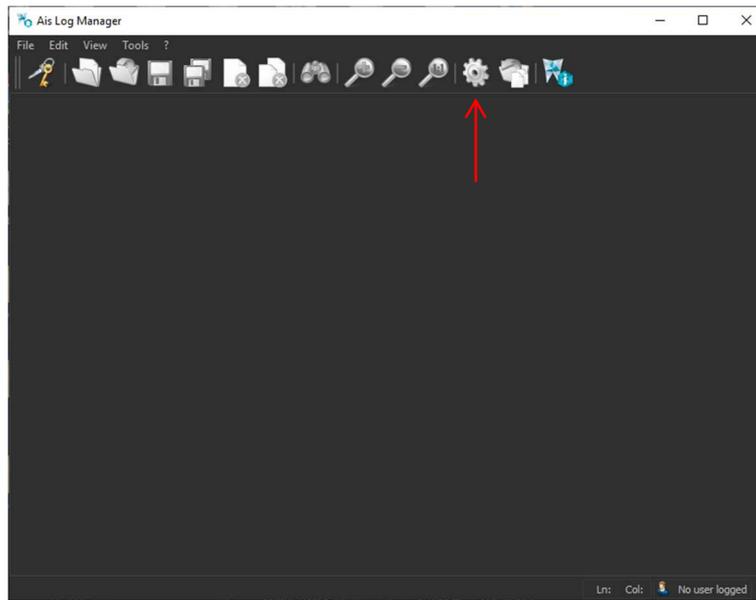
1. The program configuration should be done by an administrator of the program and is normally done at the installation of the AisLogManager, but if you must change the settings, please proceed in this way.
2. Open the program and login with the following credential:

User name: 'service'

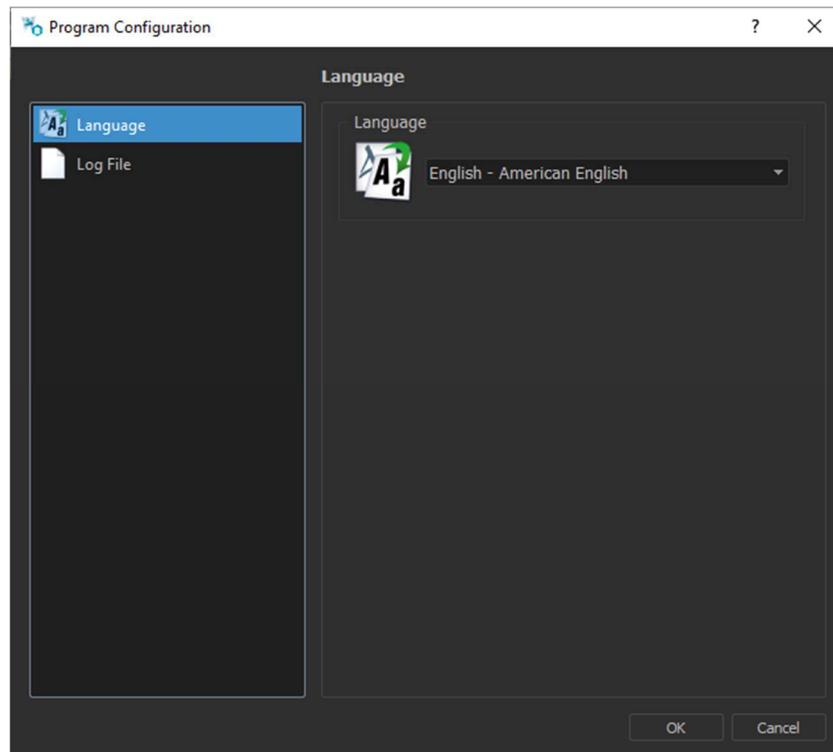
Password: 'service'

Then proceed selecting 'program configuration' tab

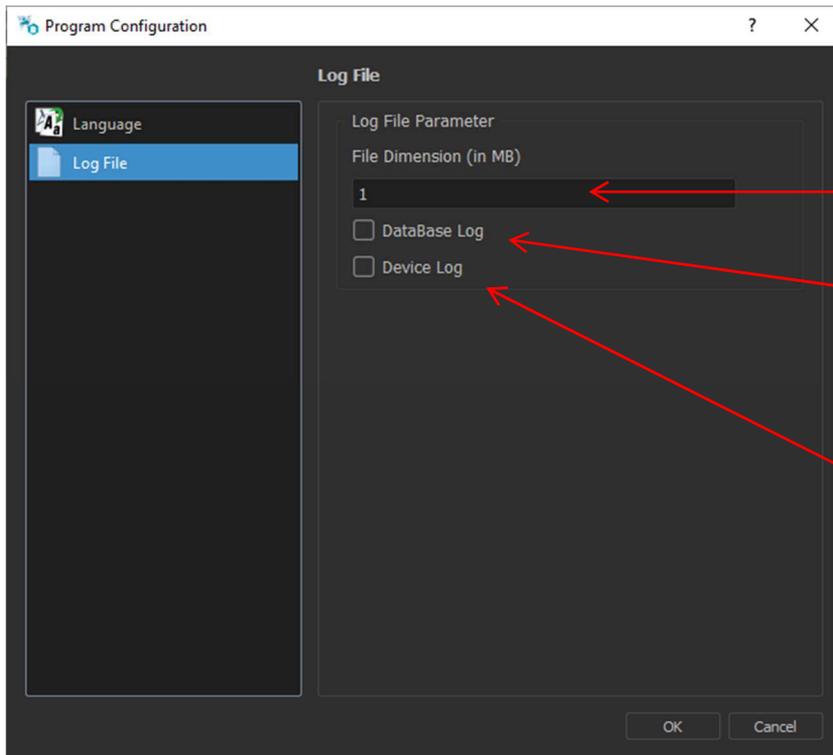
ENGLISH



3. Choose the language accordingly with country of installation.



4. LOG files configuration



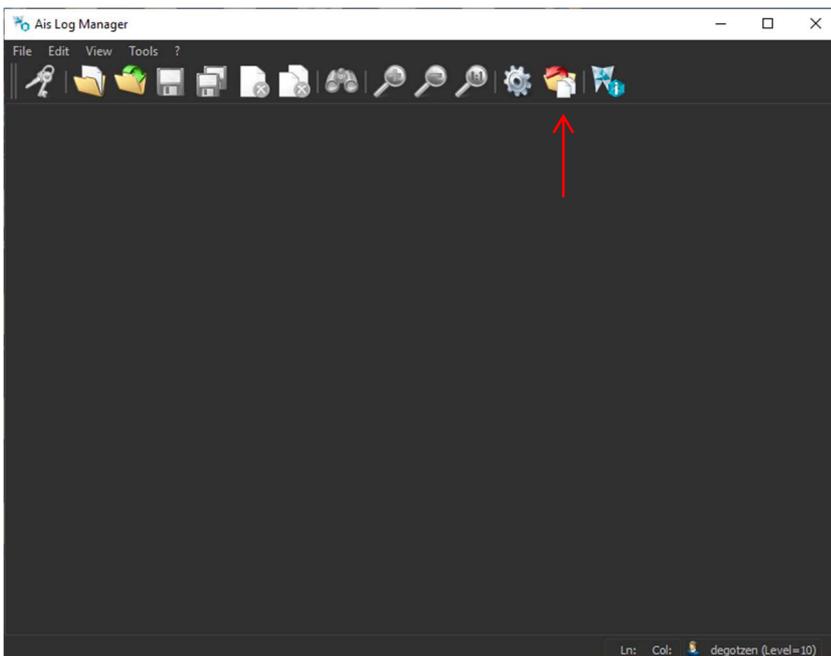
File Dimension: maximum dimension of the log file.

Database Log: if checked the program will log the database information.

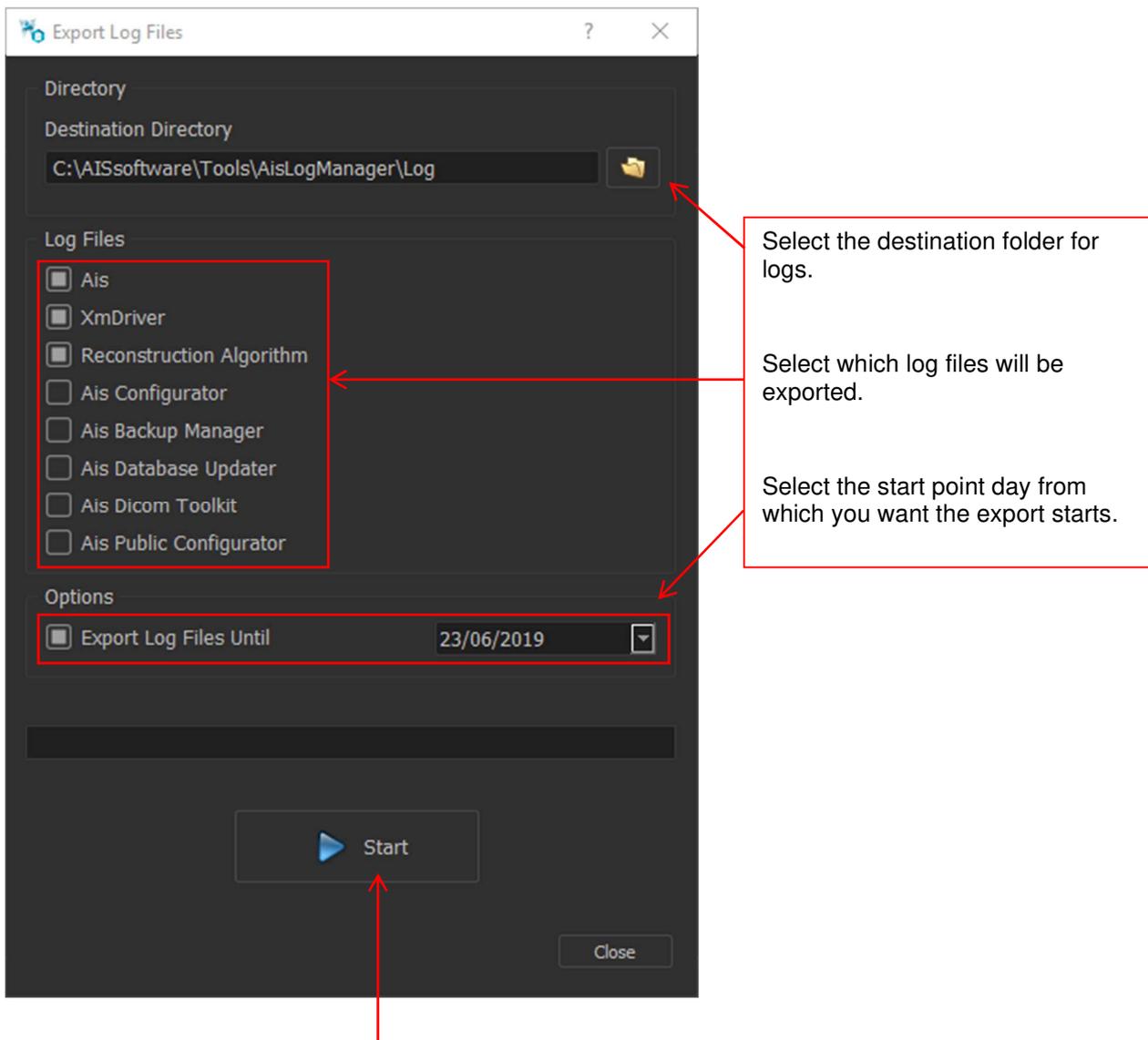
Device Log: if checked the program will log the device information.

5. After the configuration, if it's needed, proceed with the following procedure, in order to acquire the logs of the machine:

Click on the icon below, then follow the next instructions



ENGLISH



6. Press the Start button to begin the export process.

7. A zip file will be created in the folder you chose, including all the log you have selected.