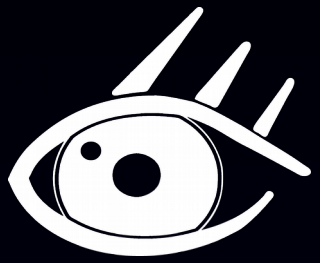

EVT Eye Vision Technology

Technology is our passion!

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EyeVision 3

First steps to connect
Remote Device and Remote Control

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First steps to connect Remote Device and Remote Control

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1.Hardware overview

Remote Device (RD)

- PC System
- Embedded
- SmartCamera
- EVT integrated vision board

All Remote Devices can be configured via ethernet from a Remote client

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1.Hardware overview

Remote Client (RC): Configure all your remote devices from one PC or laptop.

All Remote Devices uses Ethernet Connection

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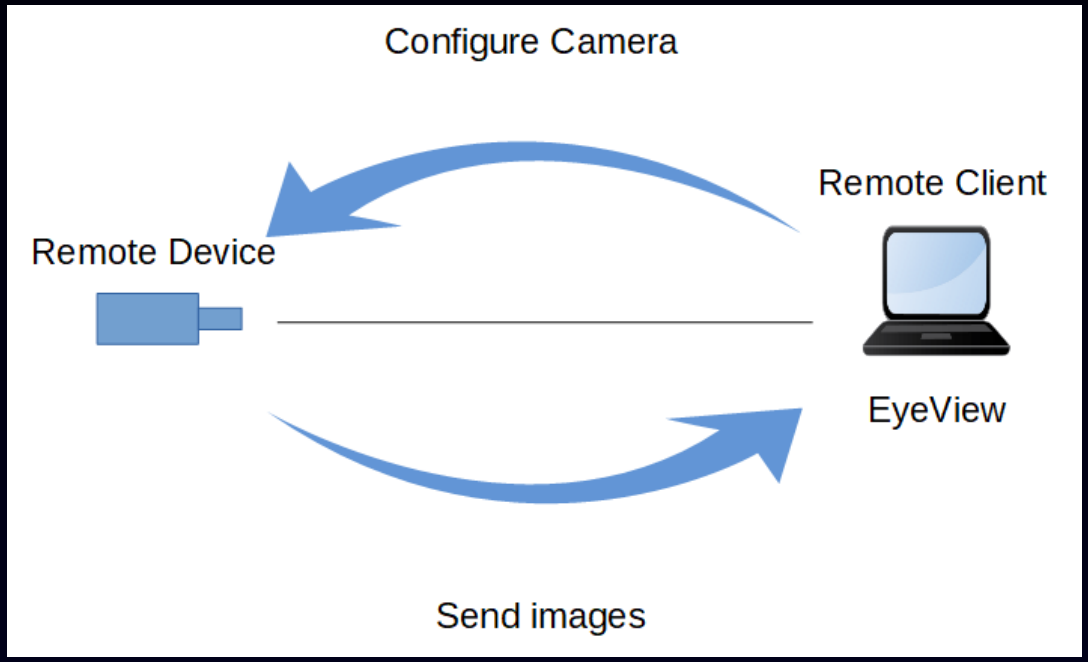
2. Network connection

- Directly

  Remote Device -> Remote client



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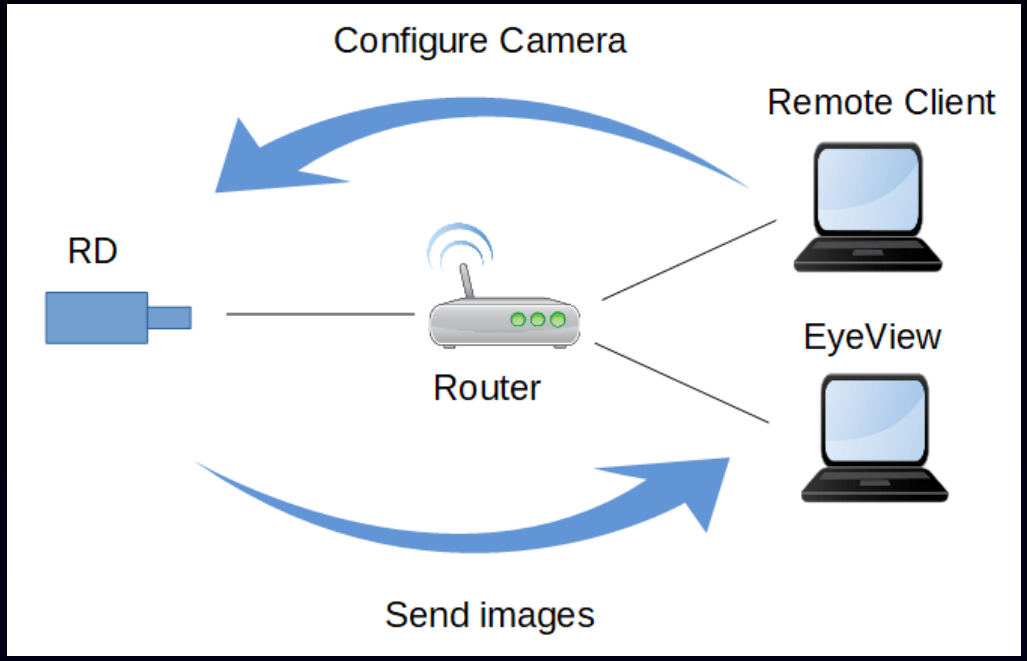
2. Network connection

- Via switch

  Remote Device -> Network -> Remote client



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3. Goal

For a proper connection between RD and Client they must be in the same subnet e.g.

Remote device: IP Address 192.168.0.65

Remote client: IP Address 192.168.0.10

are in the same subnet 192.168.0.xx

(range of local network: 192.168.0.1 – 192.168.0.255

when using subnet mask 255.255.255.0)

If RC and RD IP address range fit, we can connect the systems.

*The default IP address of the Remote Device is set on 192.168.0.65.

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4. Connection is not possible?

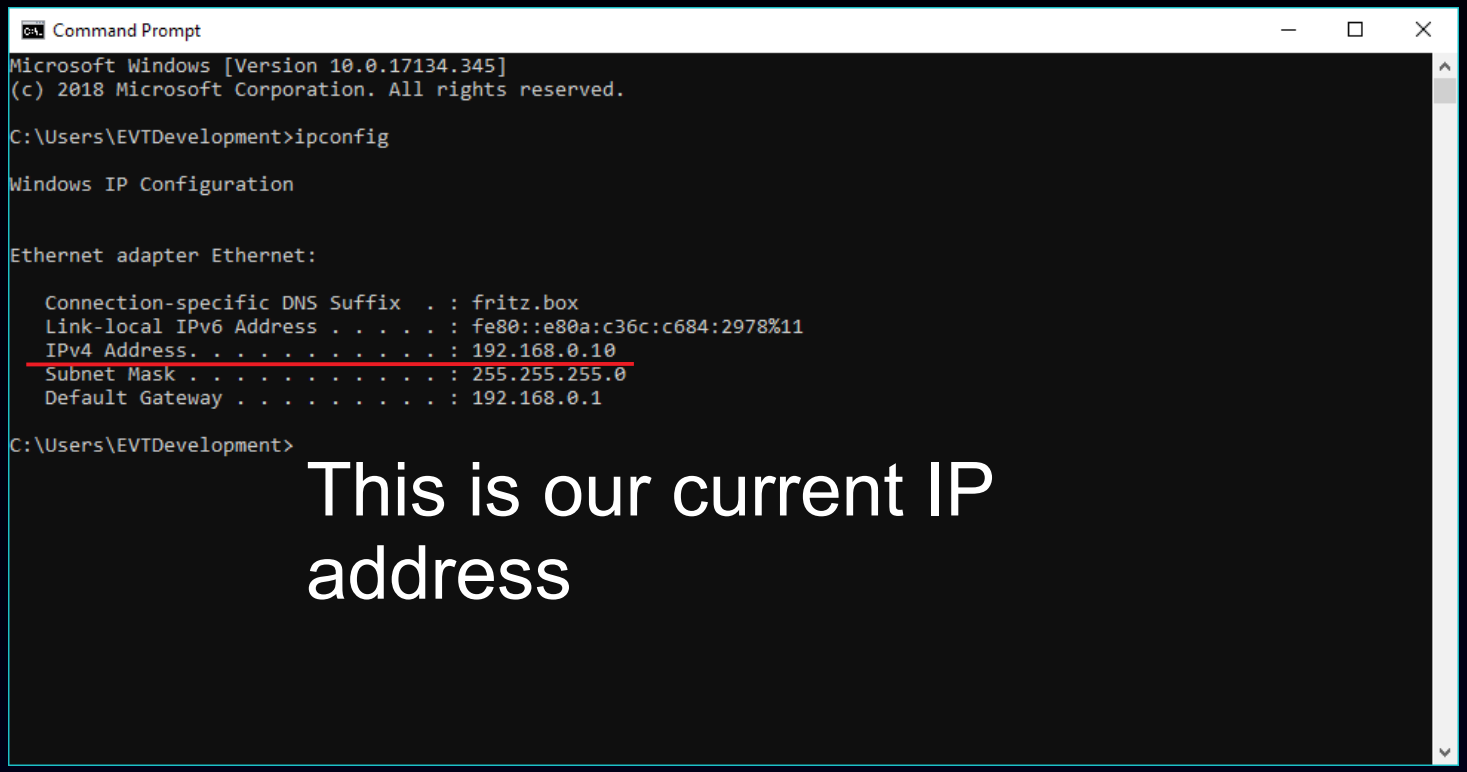
When purchasing a EyeSense system you will also receive Delivery note. This document contains version information and IP Address of device. Otherwise stated in the delivery note, the default IP address of an EyeVision Remote Device is 192.168.0.65.

5. IP configuration

Windows 10

5.1. How to find and change current IP Address of PC?

In the command line we need to type *ipconfig*



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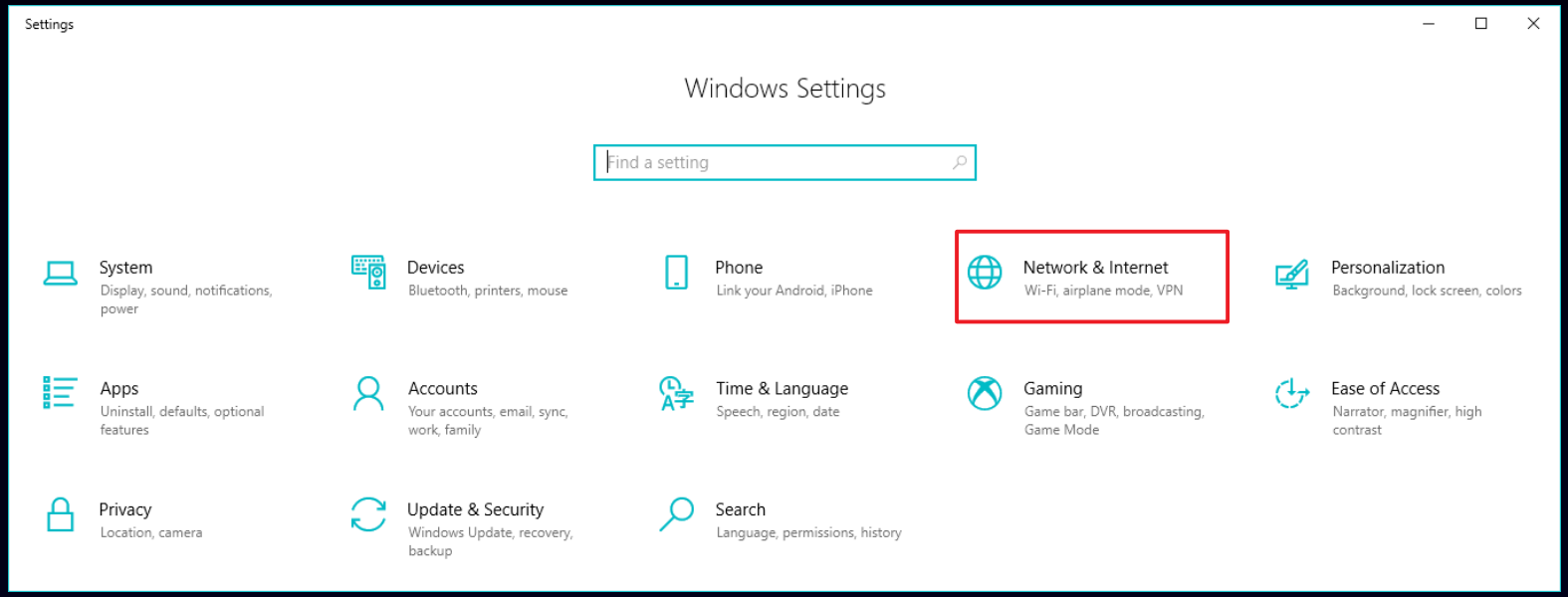
5.1. How to find and change current IP Address of PC?

If our IP address range is not the same like IP address range of Remote Device we need to manualy change it. START->Settings->Network and Internet->Change adapter option



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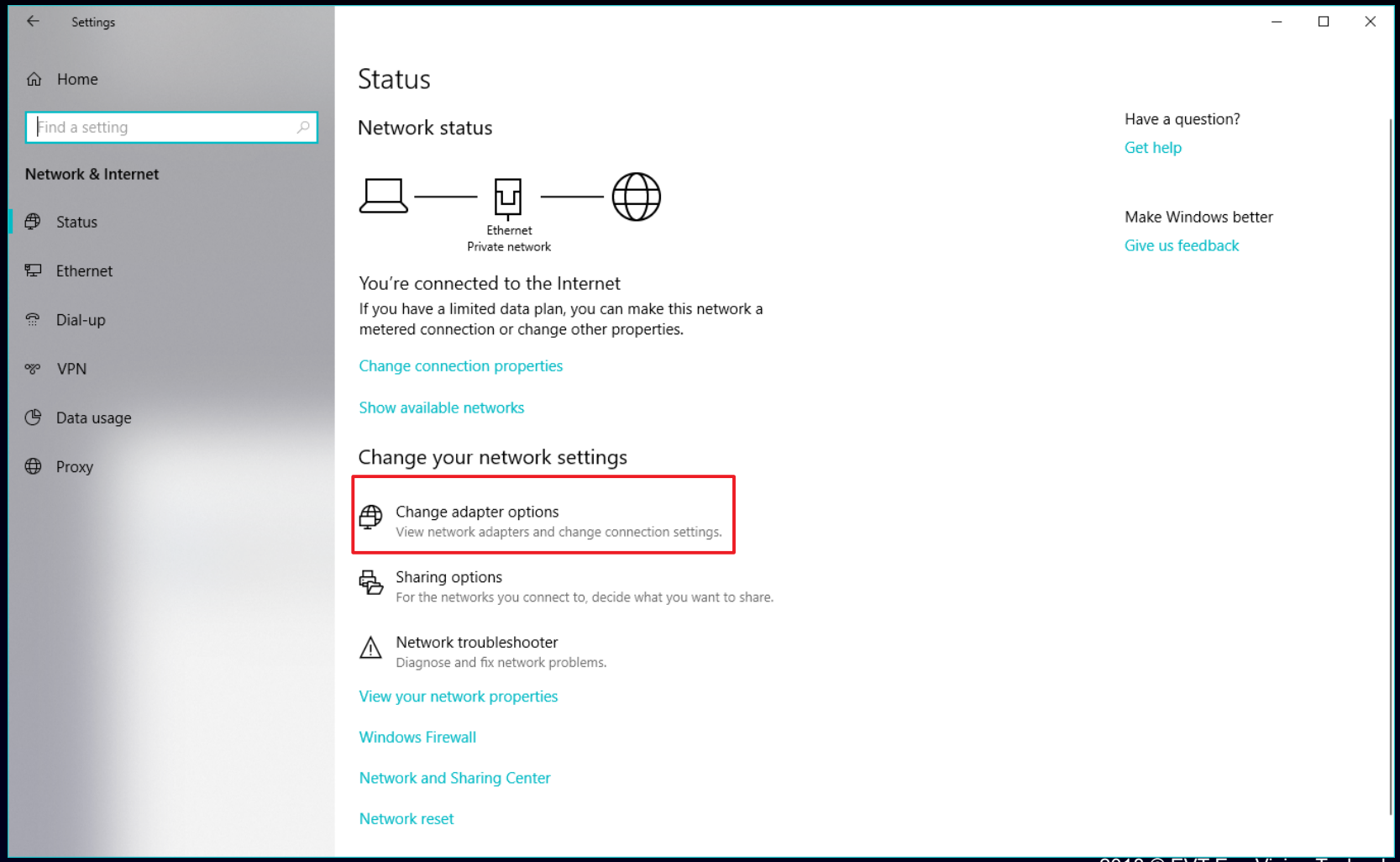

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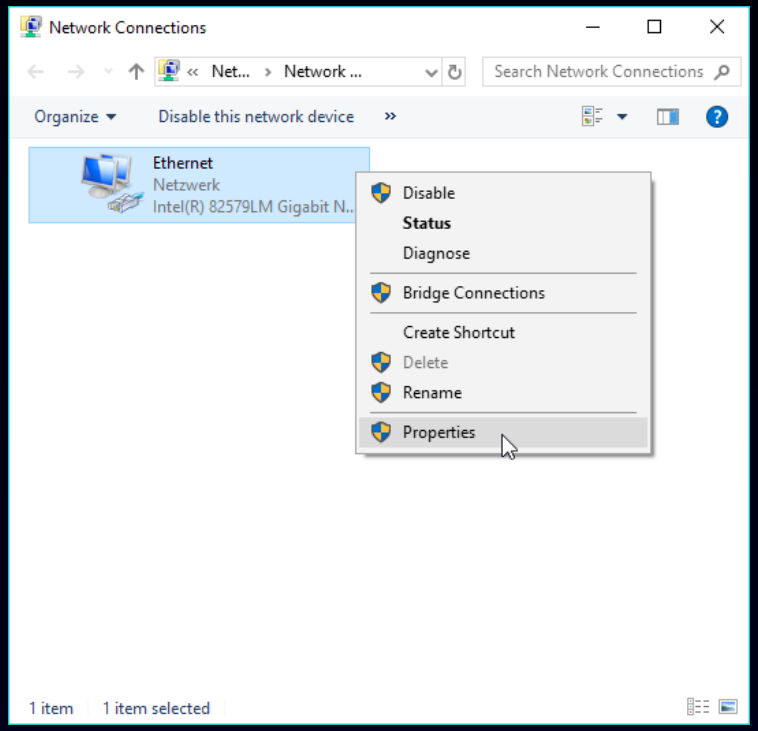
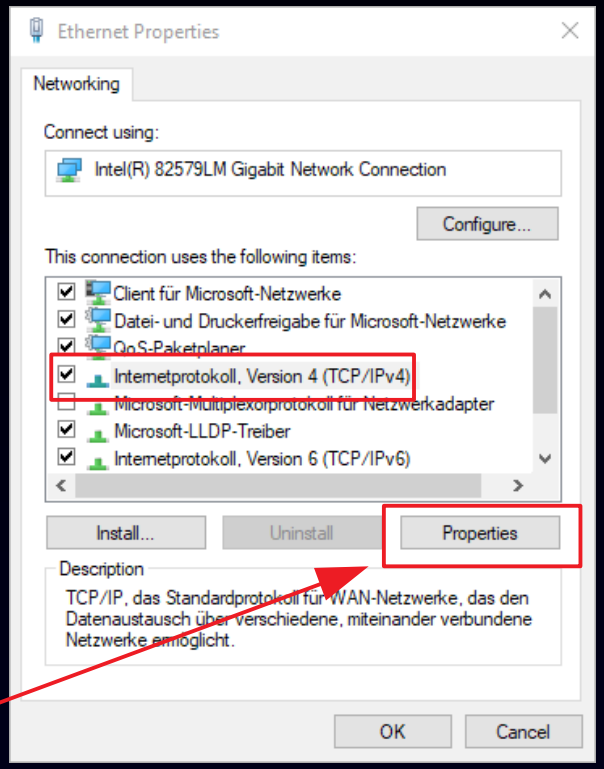
5.1. How to find and change current IP Address of PC?

Now when we have Network Connection Window we need to go to Properties of our Network. In Ethernet Properties we have Internet Protocol (TCP/IPv4).





Than click *Properties.*

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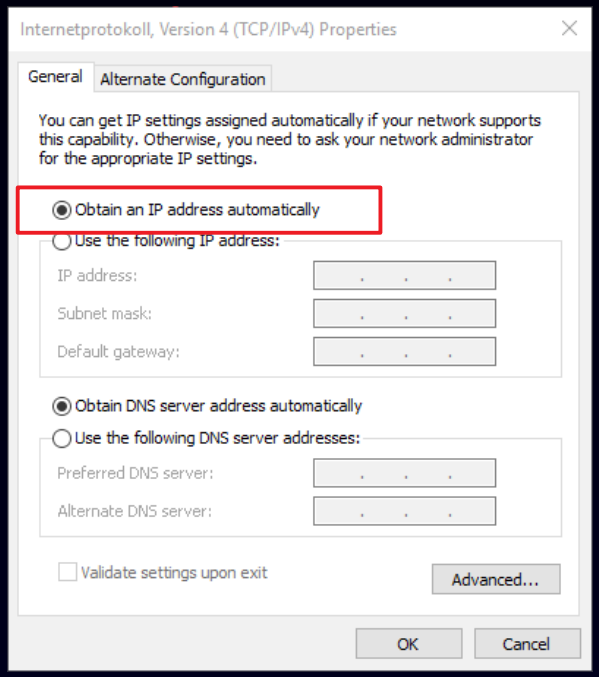
5.1. How to find and change current IP Address of PC?

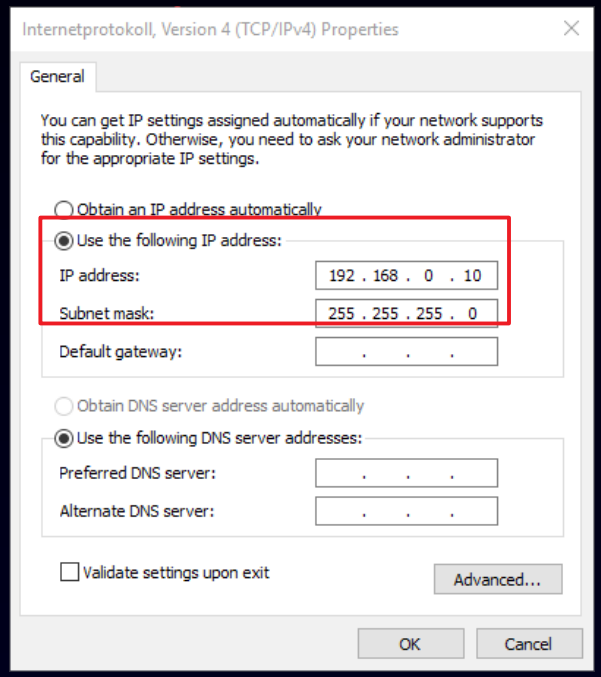
In Internet Protocol (TCP/IPv4) options we can have selected

Obtain an IP address automatically. We need to change it to

Use the following IP address. In field *IP address we* could now enter our Static IP and subnetmask (opcional 255.255.255.0).

IP address should stay in IP address range of Remote Device





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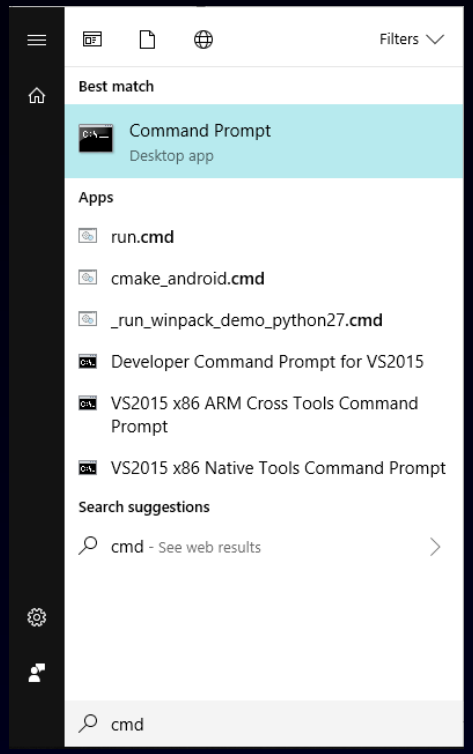
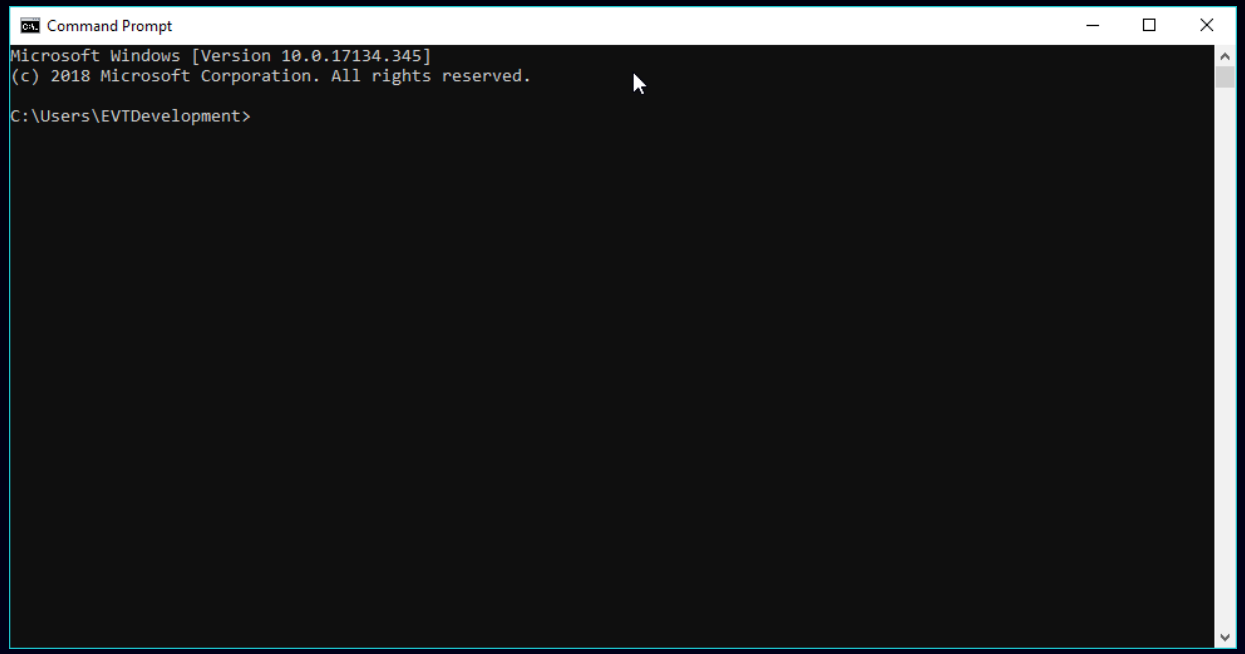
5.1. How to find and change current IP Address of PC?

The best way to check connection is to open Command Prompt and use command *ping*.
For this we need to go to START -> cmd.exe





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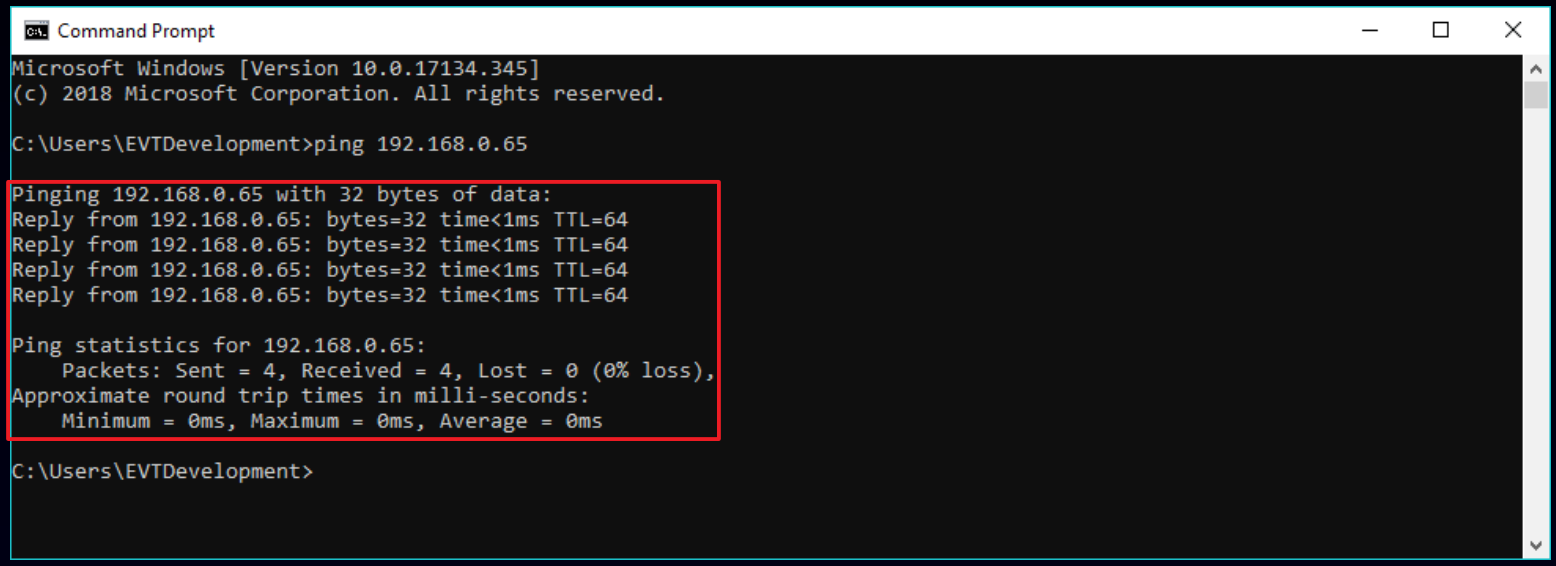
5.1. How to find and change current IP Address of PC?

In the command line we need to type *ping 192.168.0.65 (Remote Device IP Address)*



The connection is correct when in Command Line appear this information

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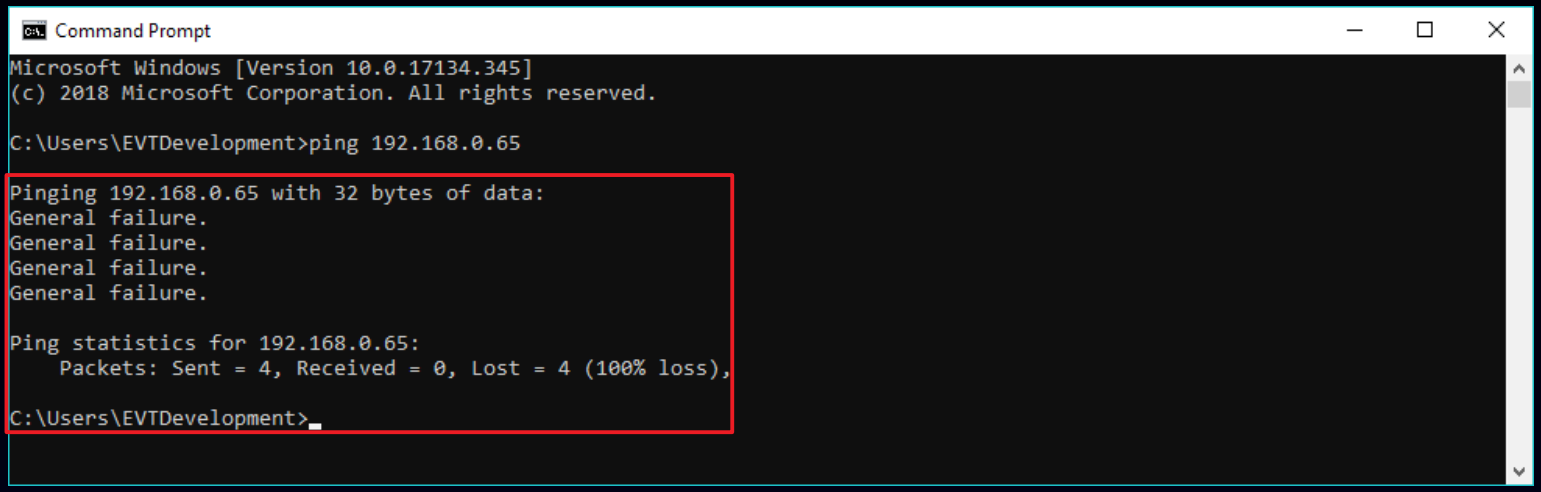
5.1. How to find and change current IP Address of PC?

If this information appears, connection is not possible.



In this case you need check all connection options. A very common problem is different IP address range.

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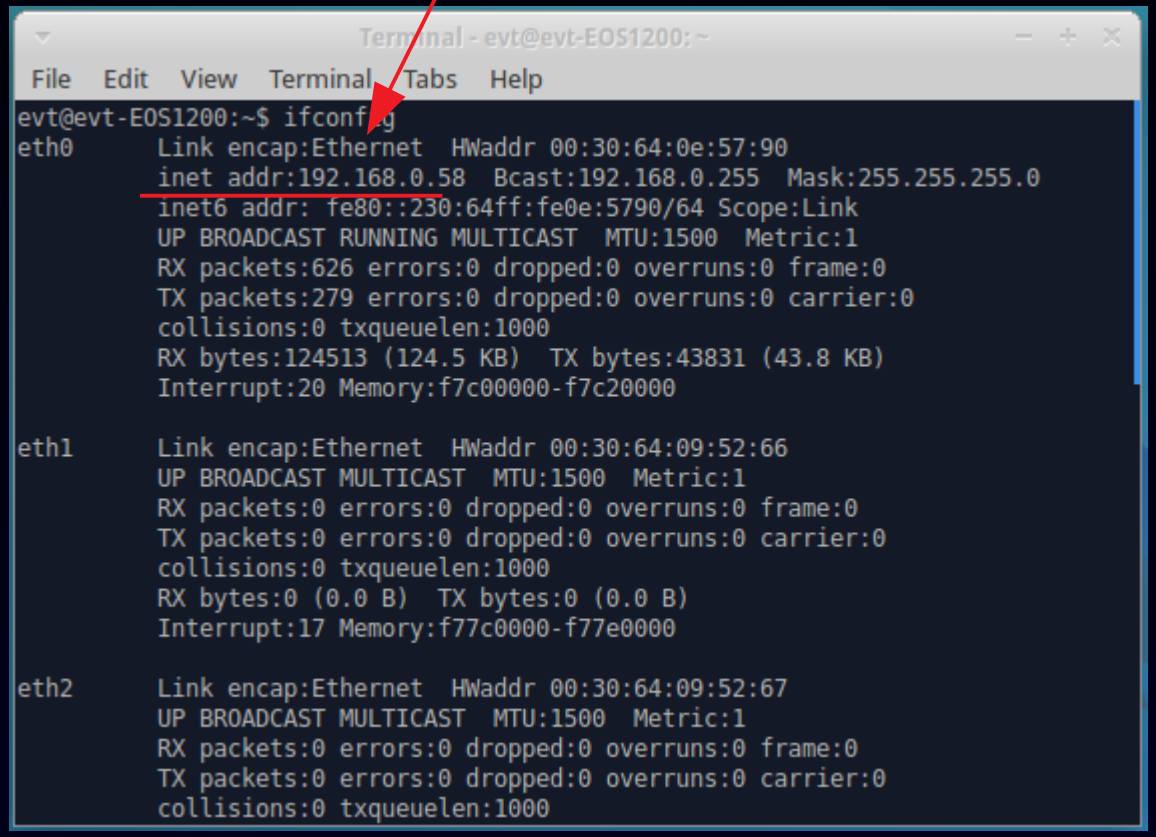
5.2. How to find and change current IP Address of Linux?

Example screenshot from Ubuntu, XFCE:

Query your IP Address with ifconfig

This is our IP Address



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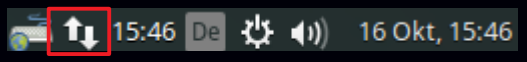
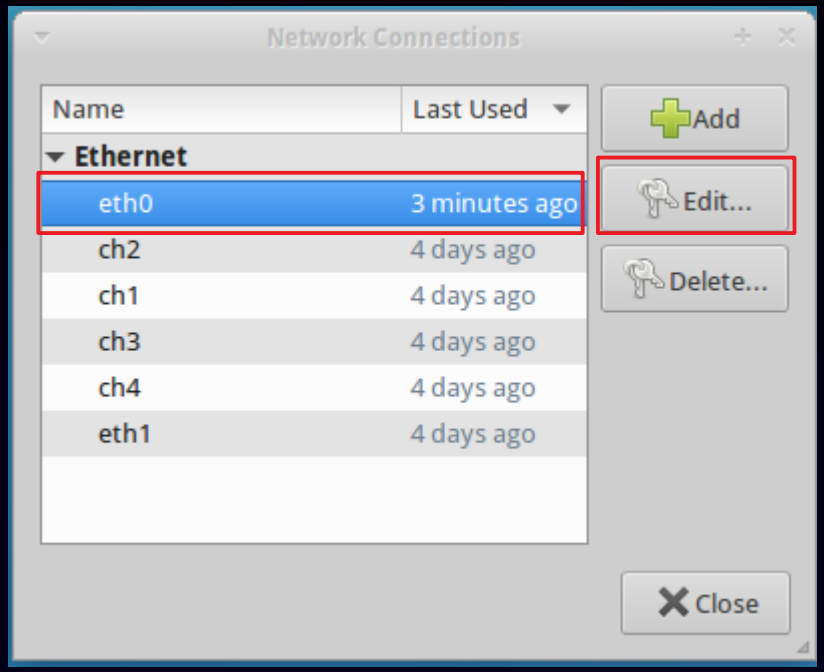
5.2. How to find and change current IP Address of Linux?

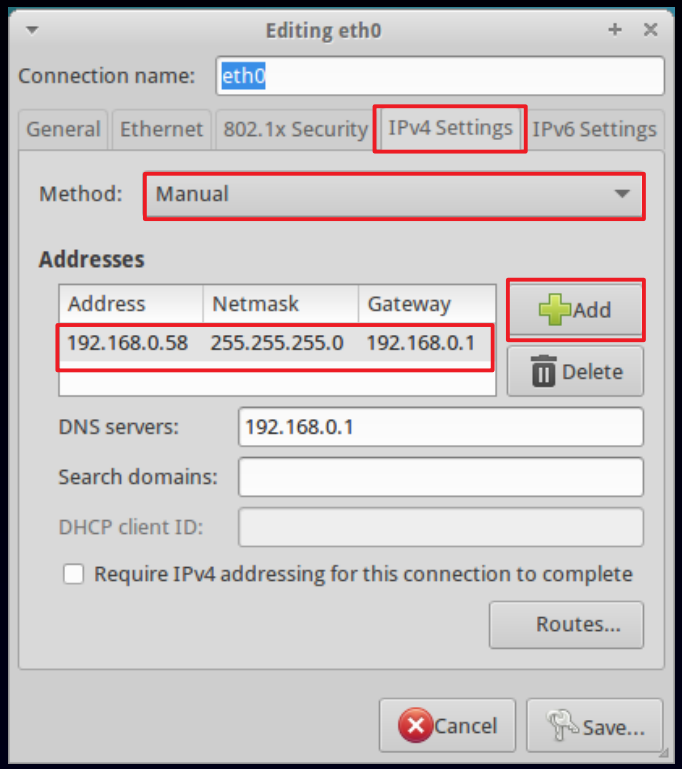
Adjust your adapter's IP address with OS tools





5.2. How to find and change current IP Address of Linux?

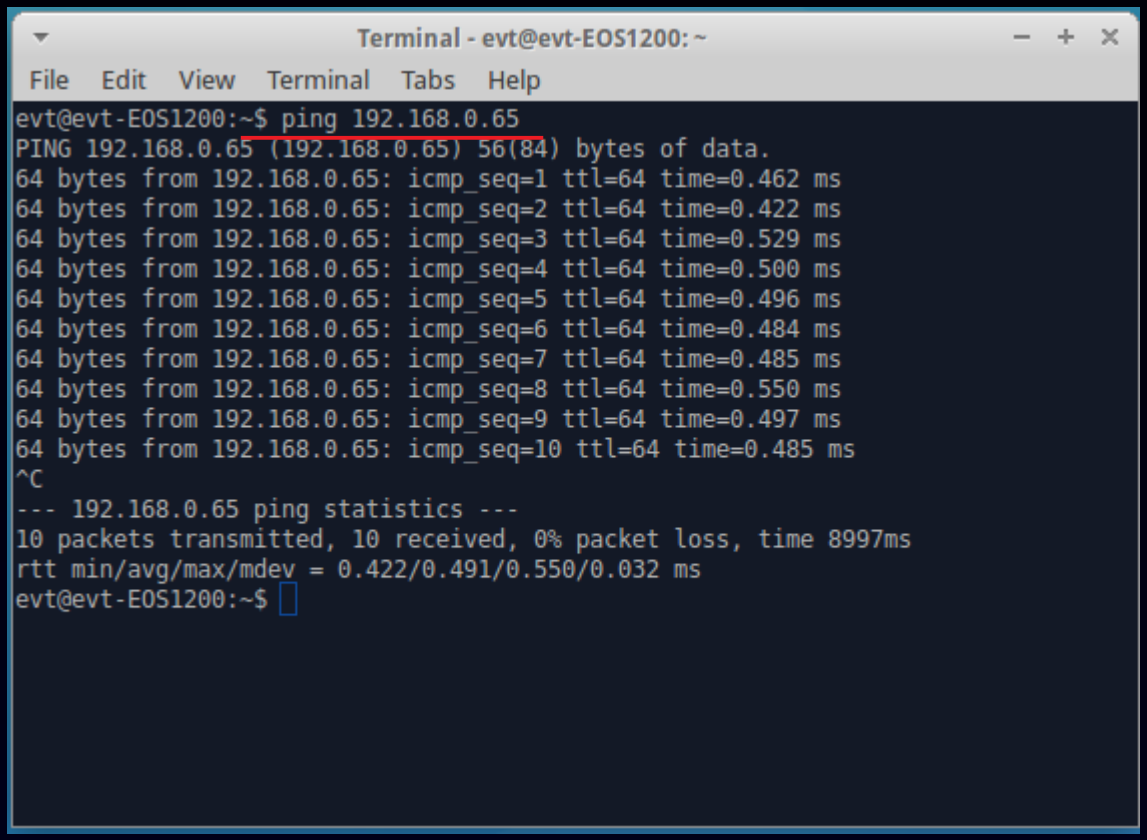
Adjust your adapter's IP address with OS tools



In field A*ddress we* could now enter our Static IP and in Netmask 255.255.255.0

5.2. How to find and change current IP Address of Linux?

Ping your camera using the ping command to check your connection



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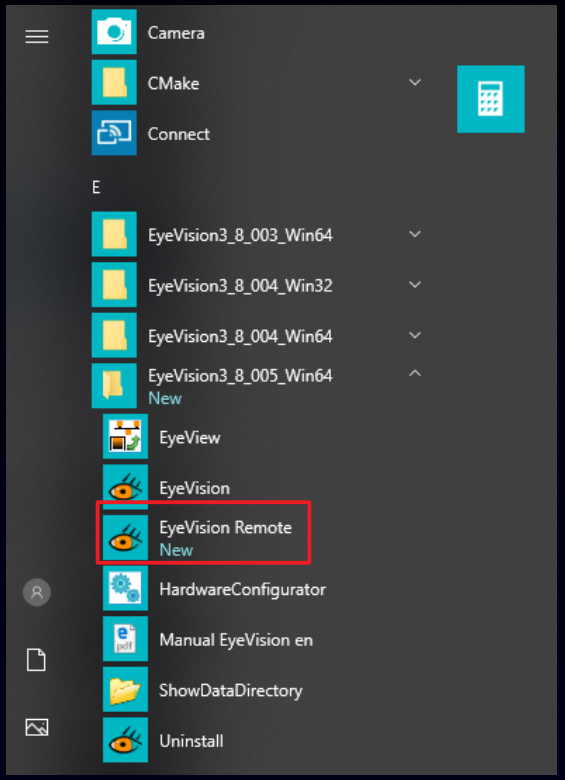
6. Connect with EyeVision

Launch EyeVision Remote from Desktop or from Start menu



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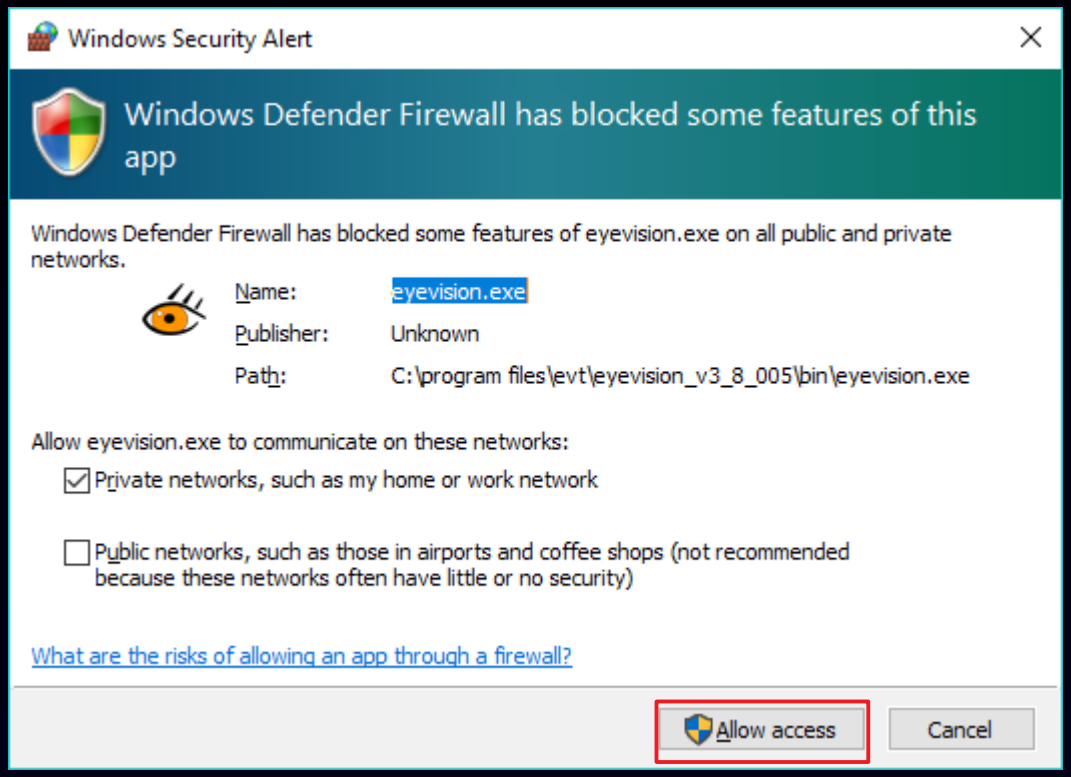
6. Connect with EyeVision

Windows Firewall may block EyeVision at first start



Click *Allow access* to accept connection from EyeVision. Firewall could block some other options of software. We explain how to disable Firewall later

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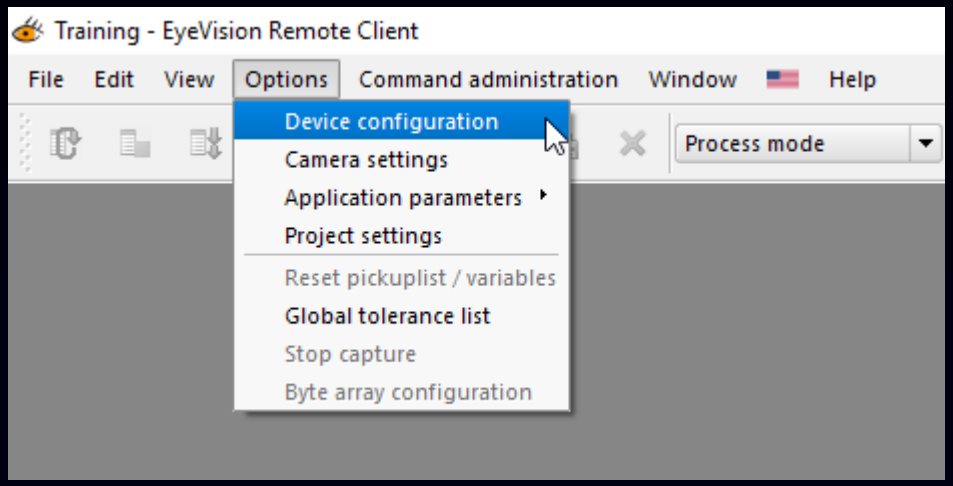
6. Connect with EyeVision

Open the device configuration menu



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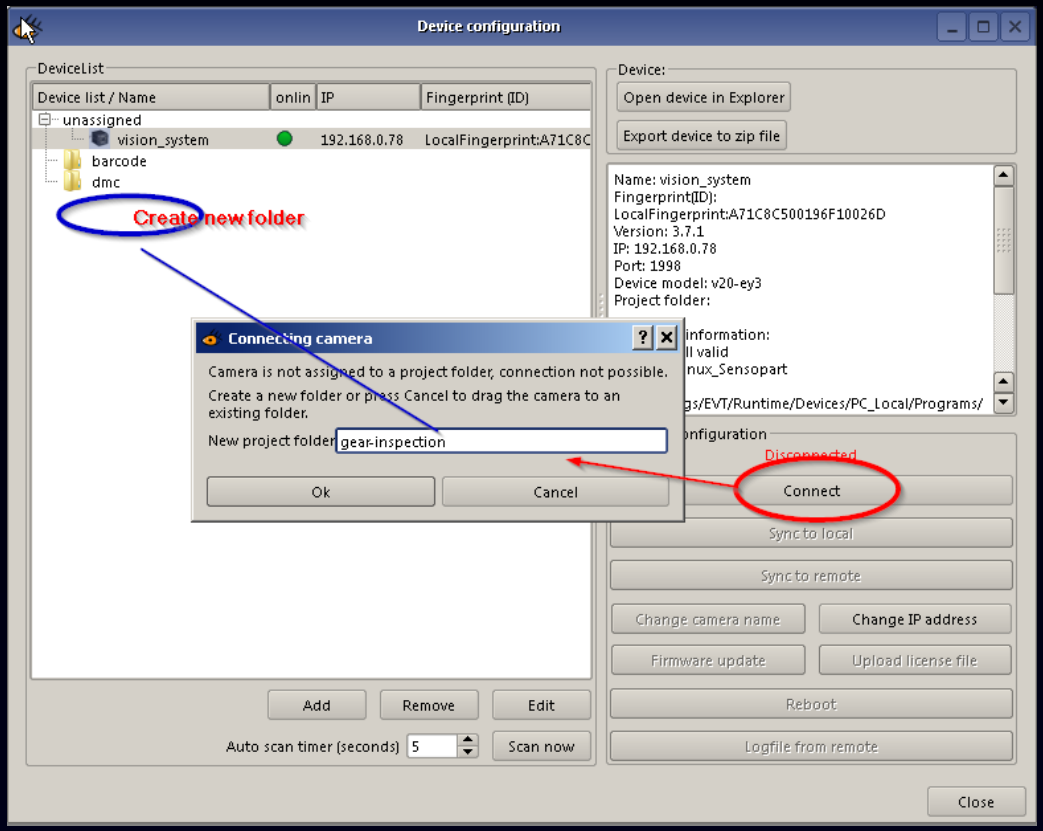
6. Connect with EyeVision

Connect the camera

First connection: Create a local project folder



A smart camera will be assigned to a local project folder. The local project folder is located in %datadirectory %/Devices. This folder contains all necessary data like inspection programs, images, sensor configuration. This data can be copied from a camera to the PC using the button "Sync to local" or copied from the local project folder to the camera using the button "Sync to remote". Several smart cameras can be assigned to a local project folder, which will allow to copy data from one camera to another and thus duplicate a project.

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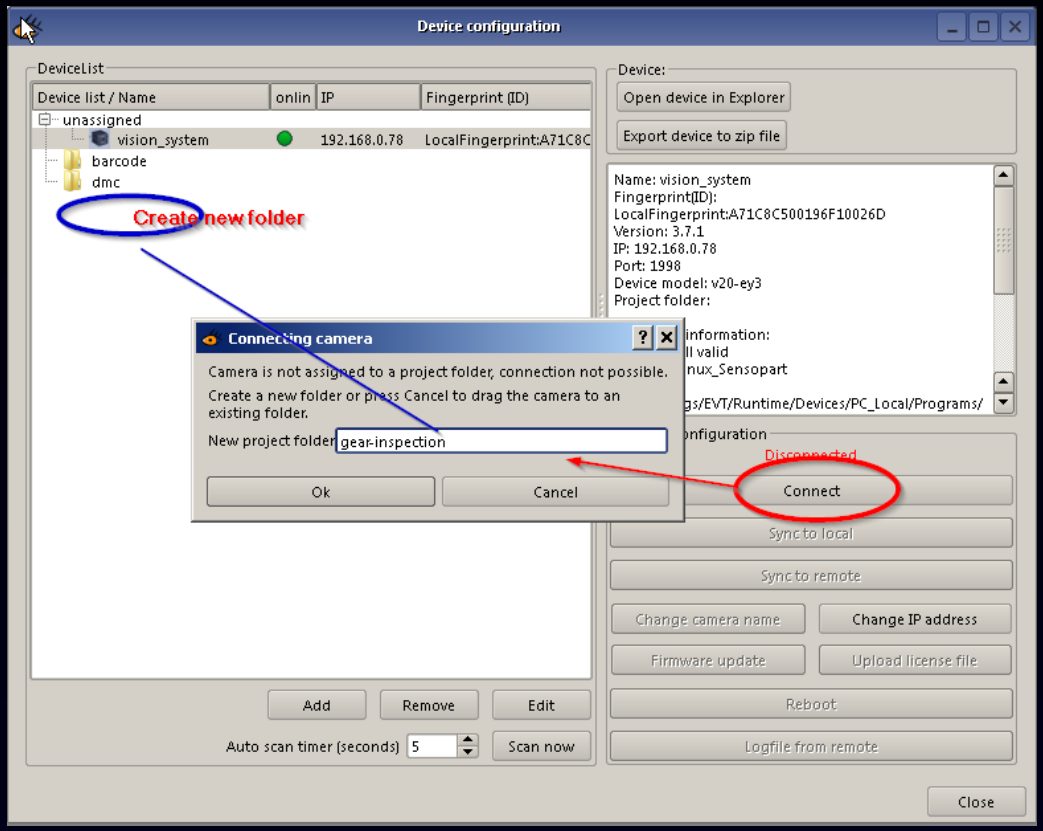
6. Connect with EyeVision

Connect the camera

First connection: Create a local project folder



Prerequesites: Smart camera and PC must be in the same local area network range.

The camera will appear as unassigned device in the tree view. The icon of camera should have a green LED in the online column.

Press the connect button.

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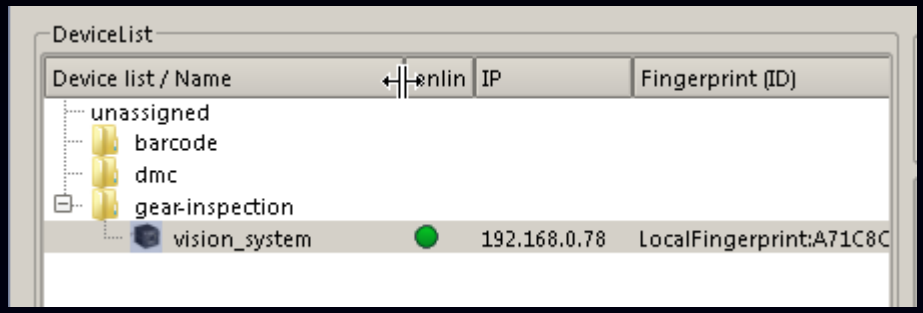
6. Connect with EyeVision

Connect the camera

Device configuration menu: Crate a new folder if camera is not assigned



A dialog will open where you can specify a new project folder for this camera. In this example, the folder will be called "gear_inspection".

After clicking Ok, the camera will be assigned to the new project folder

Device configuration menu: Drag the camera into existing project folder

A remote device can be assigned to an existing project folder. Drag the device and drop it into the folder.

Press the connect button

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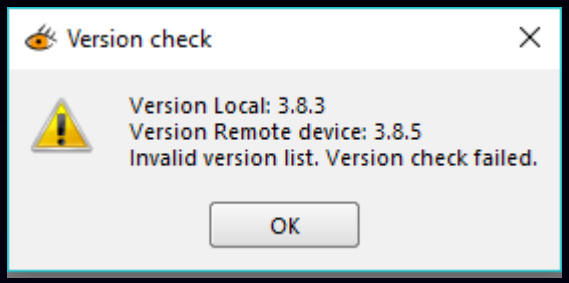
6. Connect with EyeVision

Connect the camera

Version check failed



Software and device versions must be the same. In this case we need to install a different version of the software. The delivery note contains details. Otherwise contact the EVT support.

(support@evt-web.com)

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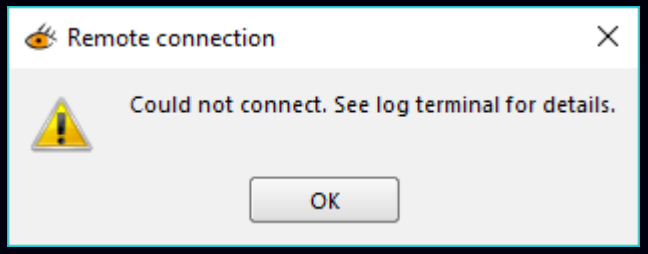
6. Connect with EyeVision

Connect the camera

Remote could not connect

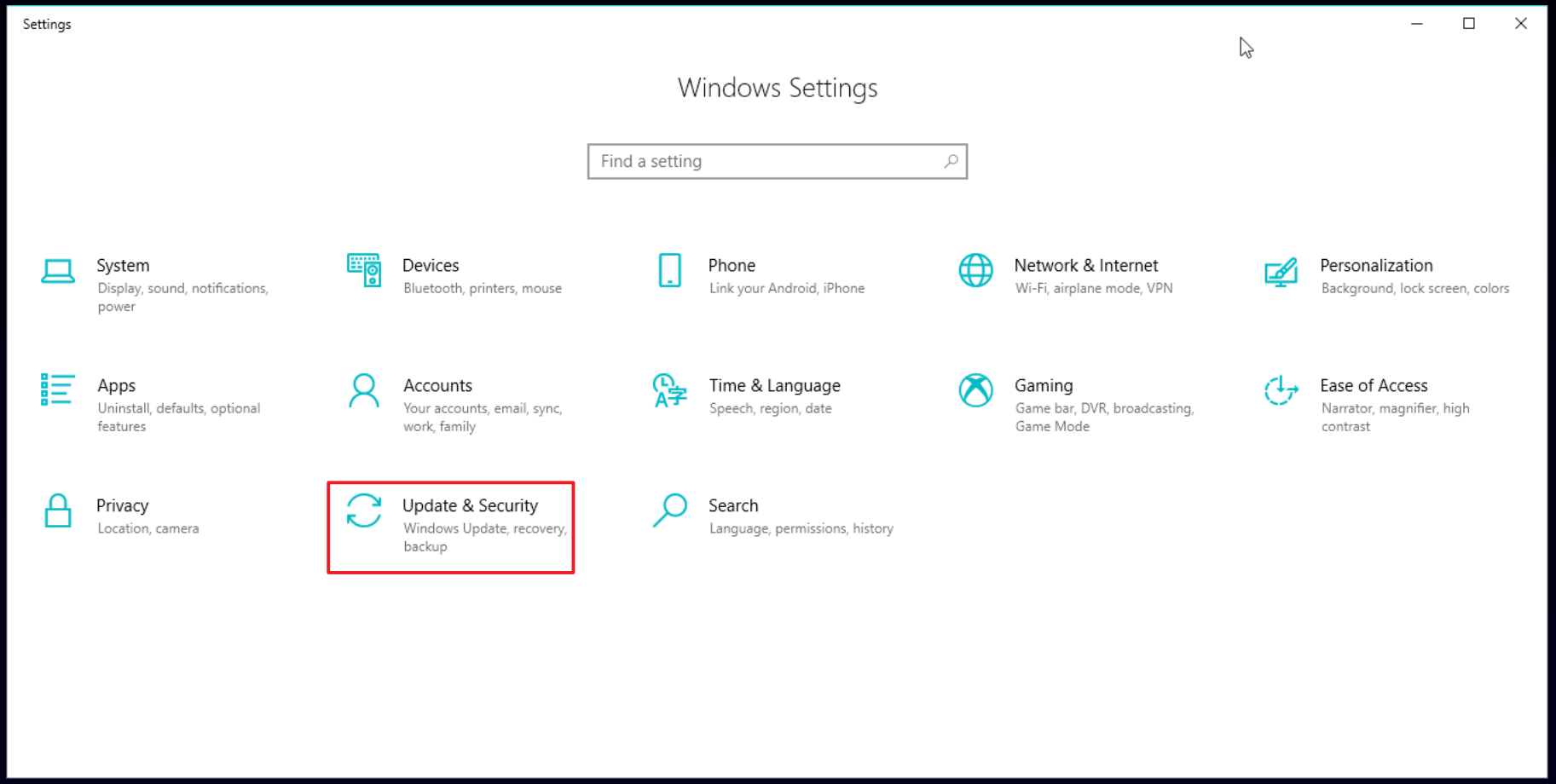


Problem with connection? If Smart camera and PC are in the same local area network we need to disable firewall

7. Firewall

How to disable

Go to Windows Setup -> Update & Security -> Windows Security -> Firefox and Network Protection



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7. Firewall

How to disable

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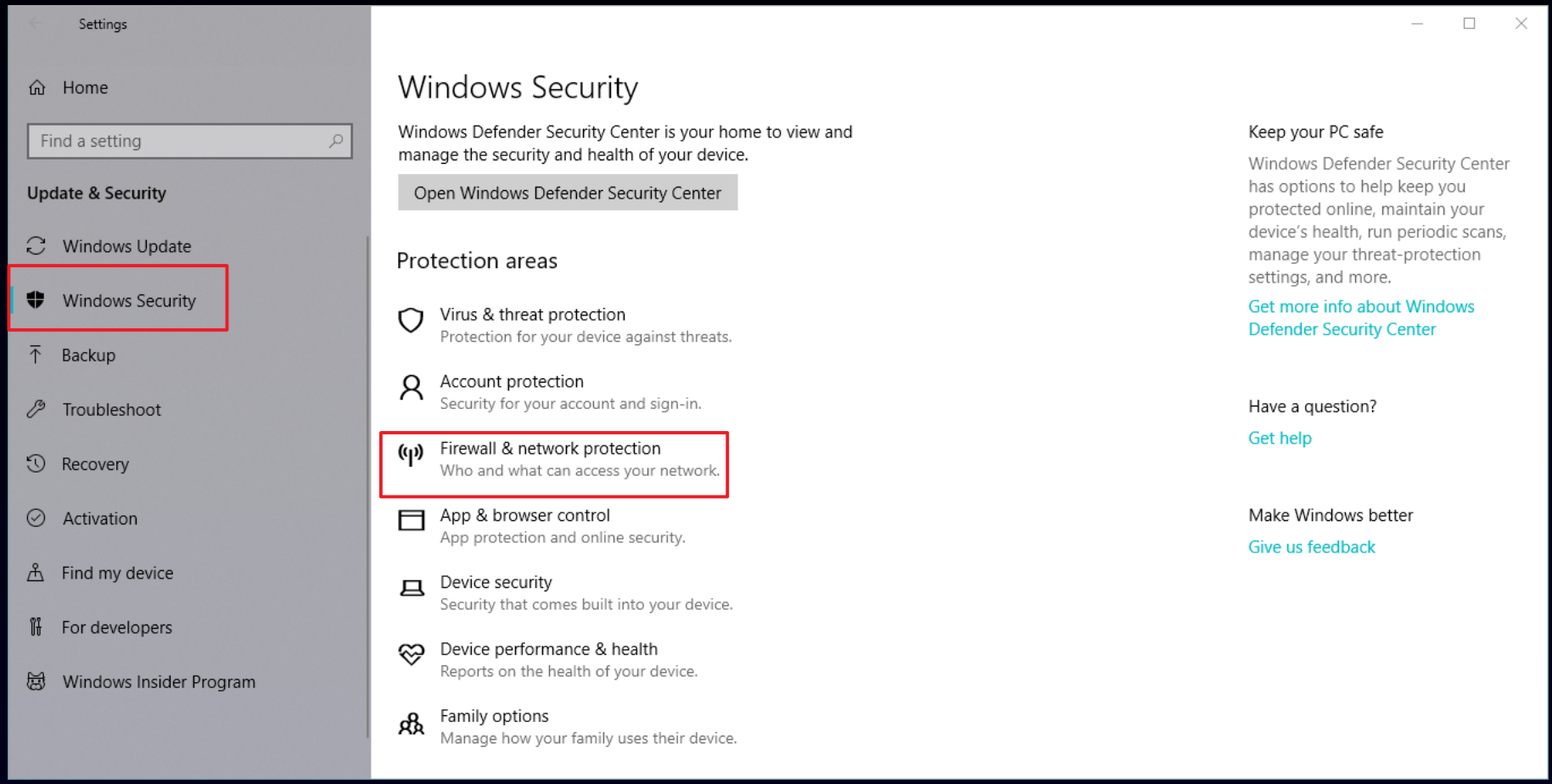
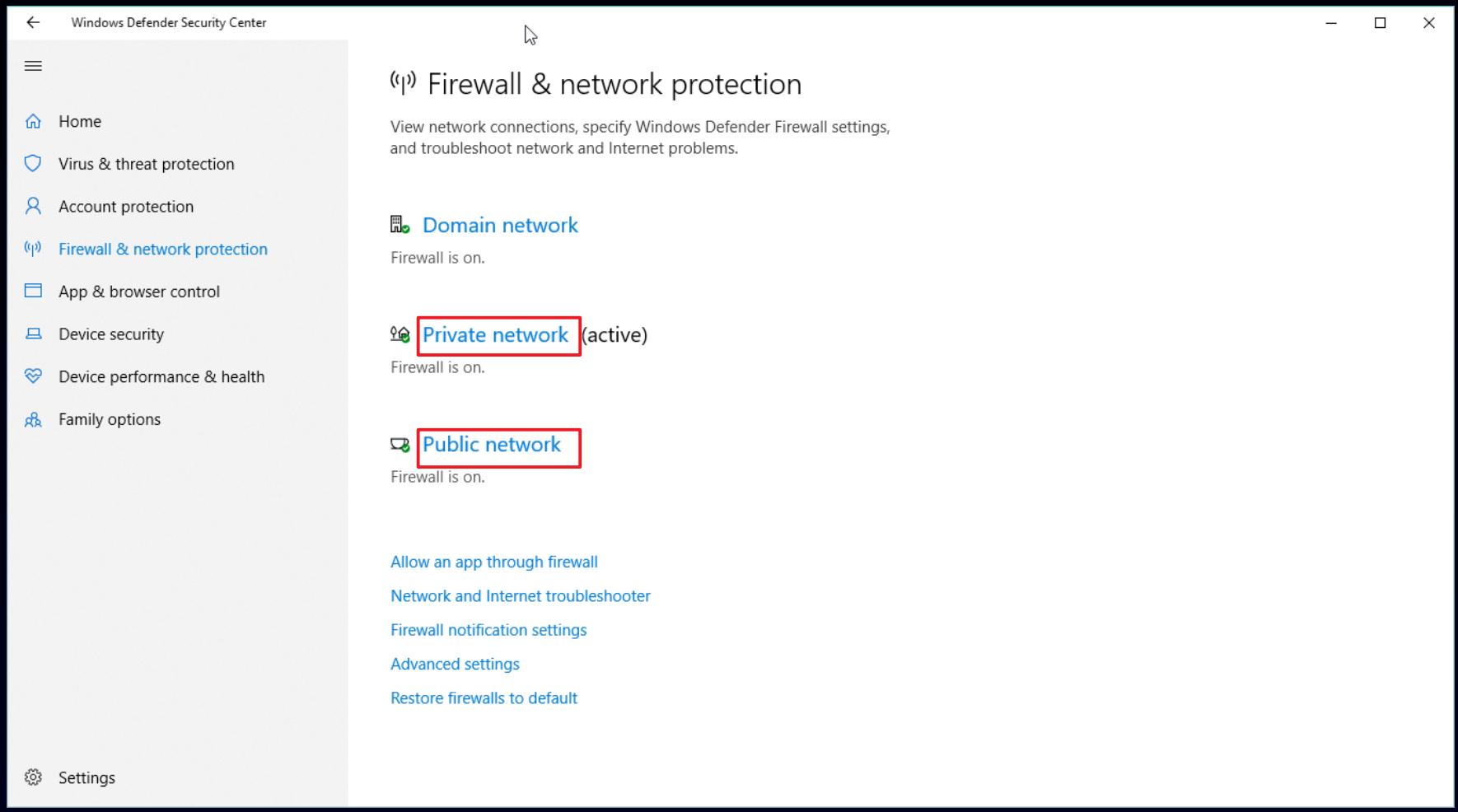


7. Firewall

How to disable

Disable Private and Public network



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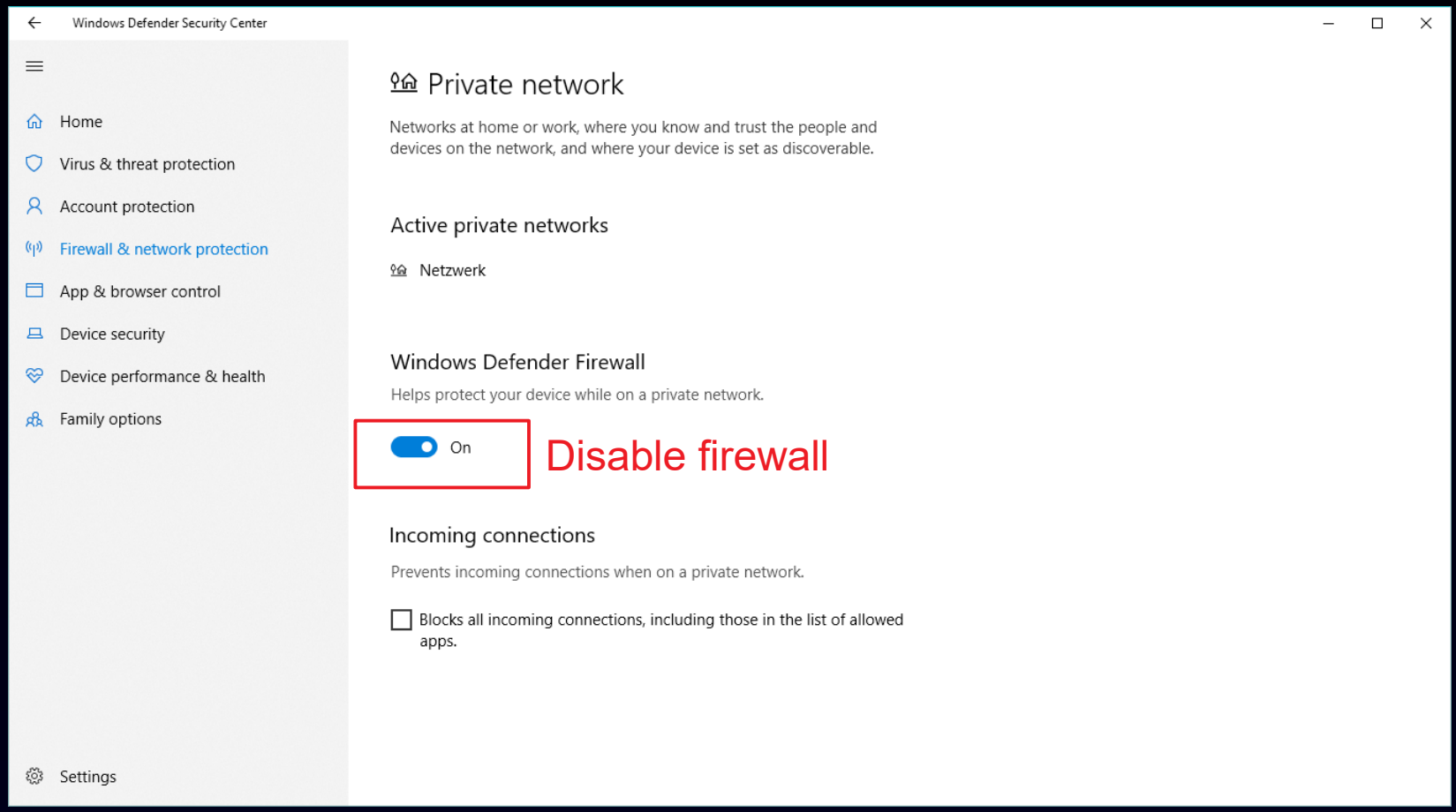
7. Firewall

How to disable

Disable Private and Public network

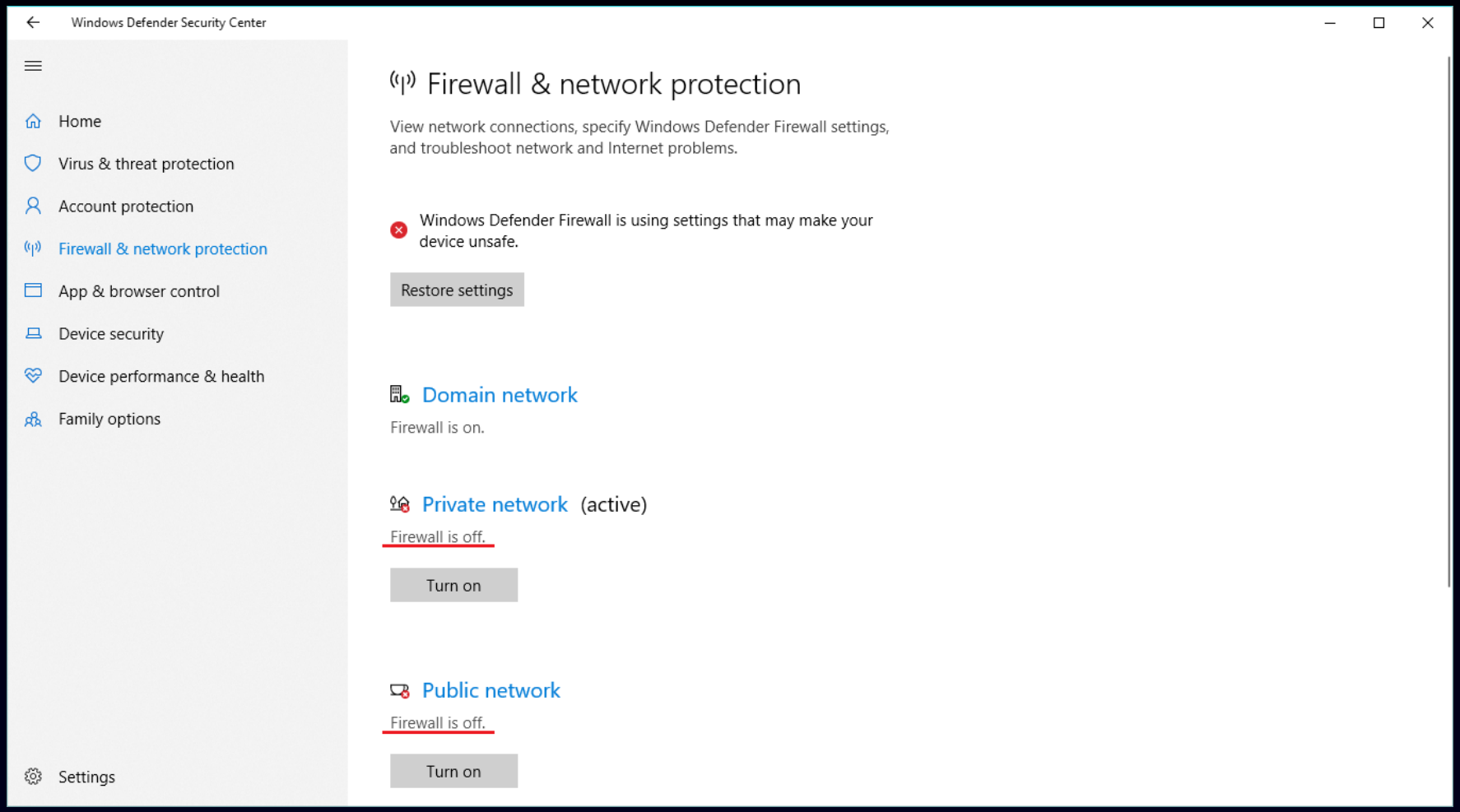


Make the same with Public network

7. Firewall

How to disable

Private and Public network are disabled



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Support

If you have some other problems.
Contact the EVT support.

support@evt-web.com

Thank you

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