

# Setting Windows 10 firewall exceptions for Bruker-SkyScan microCT software

**Method note**  
**MCT-xxx**

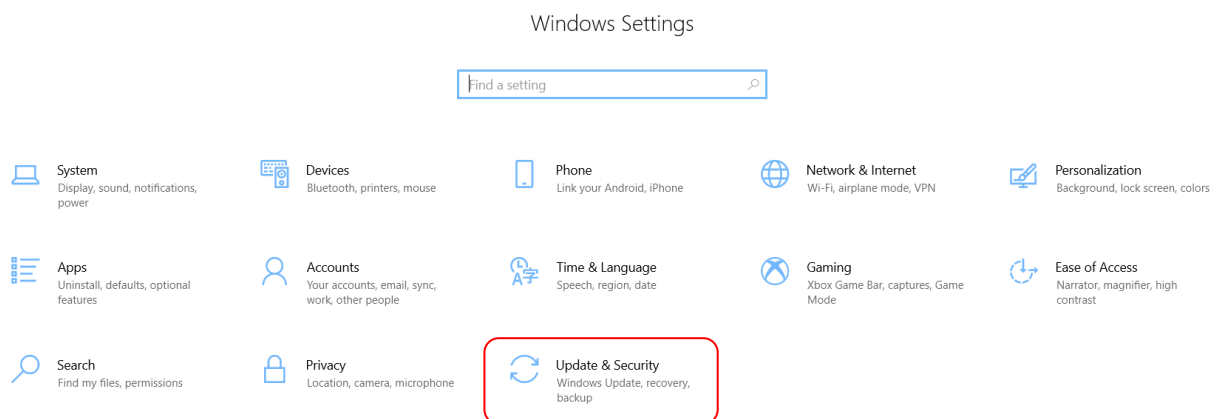
## 1. Introduction

The firewall is part of Microsoft Windows's operating system's defense against outside threats such as computer viruses and hacking attacks. It reacts with suspicion to exceptional movements of information within the computer. However firewalls can sometimes go too far in their protective zeal and interfere with the operation of legitimate software.

For this reason, on computers with Bruker SkyScan microCT software installed – the programs NRecon, Dataviewer, CTAn, CTVol, CTVOx etc., it is recommended to visit the security window within Windows 10 settings, and employ a function provided in settings to make “exceptions” in the Windows firewall for the SkyScan programs. This means that the firewall gives a “pass” to these programs to perform the intense high-performance data exchanges that are needed for analysis and visualisation of large 3D microCT datasets. This method note shows you how to set up these exceptions for the SkyScan programs. It is especially necessary for NRecon, but is recommended for all the analysis and viewing programs.

## 2. Method: making exceptions in the firewall

Go to the windows setting page and select the option “update and security” as shown below:



In this window, select first “Windows Security” then “Firewall & network protection” as shown below:



## 2.1. Allow an app through firewall

Near the bottom of this window you will find the listed option “allow an app through firewall”. Windows likes to call programs “apps”. So choose this option.

## Firewall & network protection

Who and what can access your networks.

### Domain network

Firewall is on.

### Private network

Firewall is on.

### Public network (active)

Firewall is on.

[Allow an app through firewall](#)

[Network and Internet troubleshooter](#)

[Firewall notification settings](#)

[Advanced settings](#)

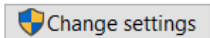
[Restore firewalls to default](#)

Clicking on this will open the following window:

### Allow apps to communicate through Windows Defender Firewall

To add, change, or remove allowed apps and ports, click Change settings.

What are the risks of allowing an app to communicate?

 Change settings

Allowed apps and features:

Name	Private	Public
<input checked="" type="checkbox"/> @FirewallAPI.dll,-80201	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> @FirewallAPI.dll,-80206	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> {78E1CD88-49E3-476E-B926-580E596AD309}	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 3D Viewer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> AllJoyn Router	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> App Installer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> BranchCache - Content Retrieval (Uses HTTP)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> BranchCache - Hosted Cache Client (Uses HTTPS)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> BranchCache - Hosted Cache Server (Uses HTTPS)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> BranchCache - Peer Discovery (Uses WSD)	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Captive Portal Flow	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Cast to Device functionality	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Details...
Remove

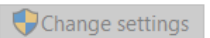
Allow another app...

To make it active, you need to click on the blue and yellow shield icon at the top which gives you administrator rights. The “allow another app” button will then be active:

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 Change settings

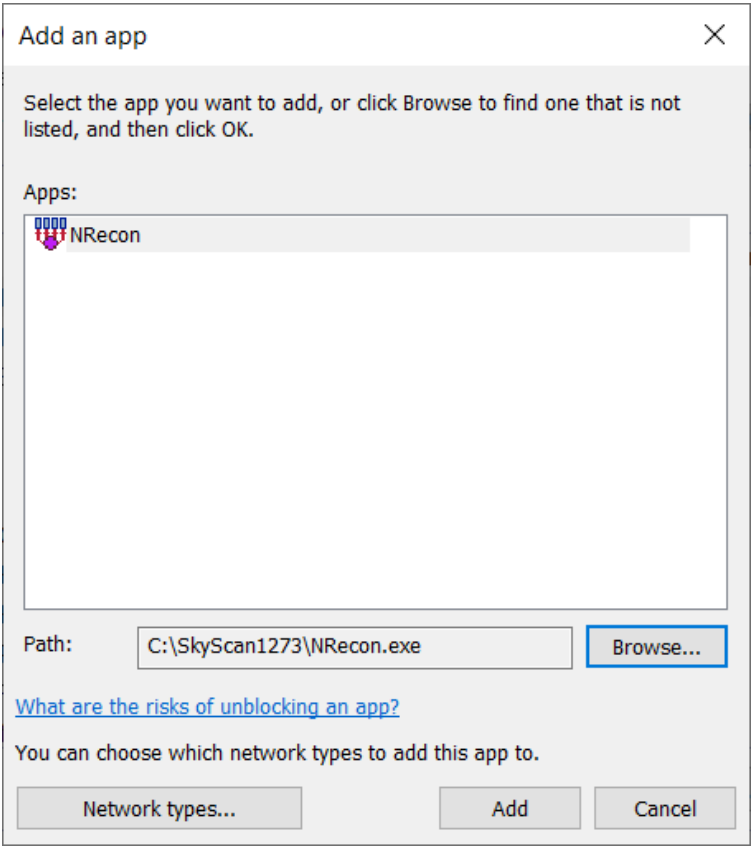
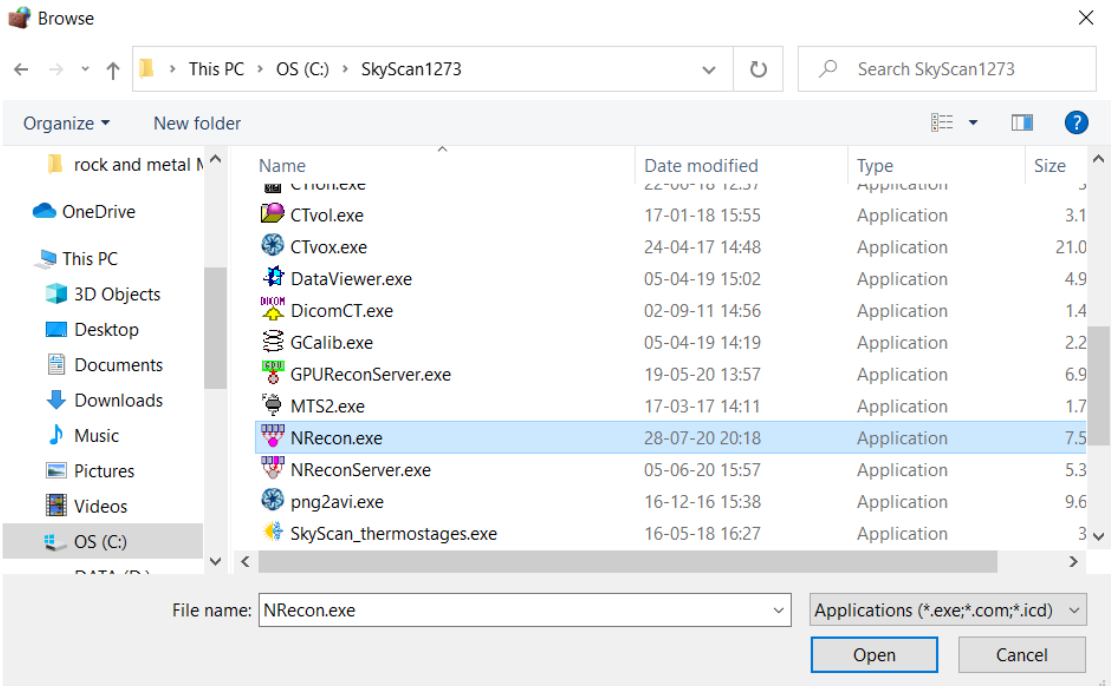
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Details...
Remove

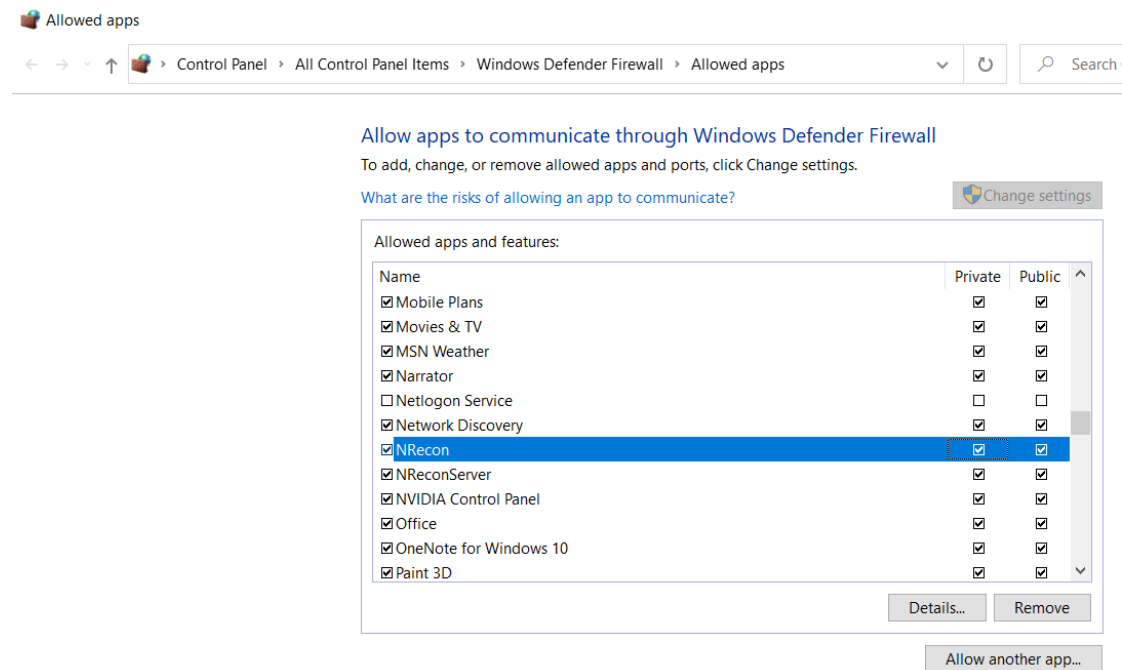
Allow another app...

Clicking on “allow another app” will open a file navigation window in which you need to find the exe files of first NRecon (then the other SkyScan programs):



With NRecon's exe file selected, click "add" at the bottom of the window.

NRecon will then appear in the list of the firewall's exempted programs. You can select both the "private" and "public" tick boxes in the row for NRecon.



And finally – repeat the process for CTAn, CTVol, CTVox and Dataviewer:

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