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X-Cube-MATTER software prerequisites

Wireless Team

Required Software List

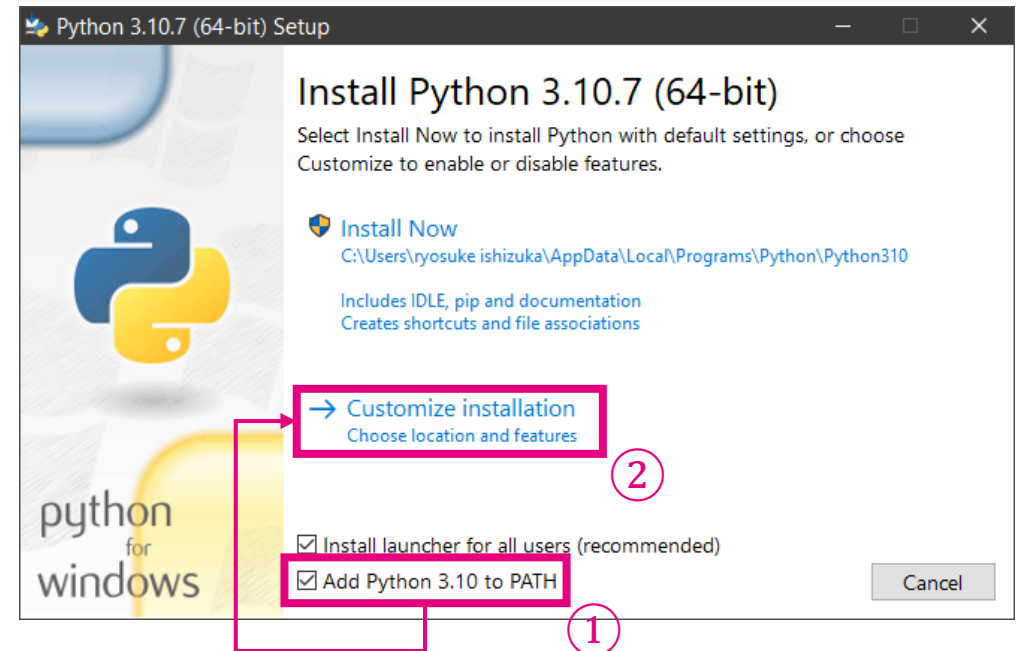
Software	Version	Link	Installation instruction
Python 3	Latest	Python	Here
Git	Latest	Git	Here
STM32CubeIDE	Latest	STM32CubeIDE	
Zap for windows	2024.05.24 *	ZAP Tools	Here
Matter SDK	1.3.0.0 *	Matter SDK	Here
X-Cube-MATTER	1.1.0 *	X-CUBE-MATTER	Here

* Mandatory version

Install Python 3 for Windows

Install Python 3 for Windows (1/2)

1. Download latest [Python 3 for Windows](#) installer and **run it as Administrator**.
2. On the Installer menu window,
 1. **Enable / Check Add Python 3.10 to PATH**
 2. **Select Customize installation**

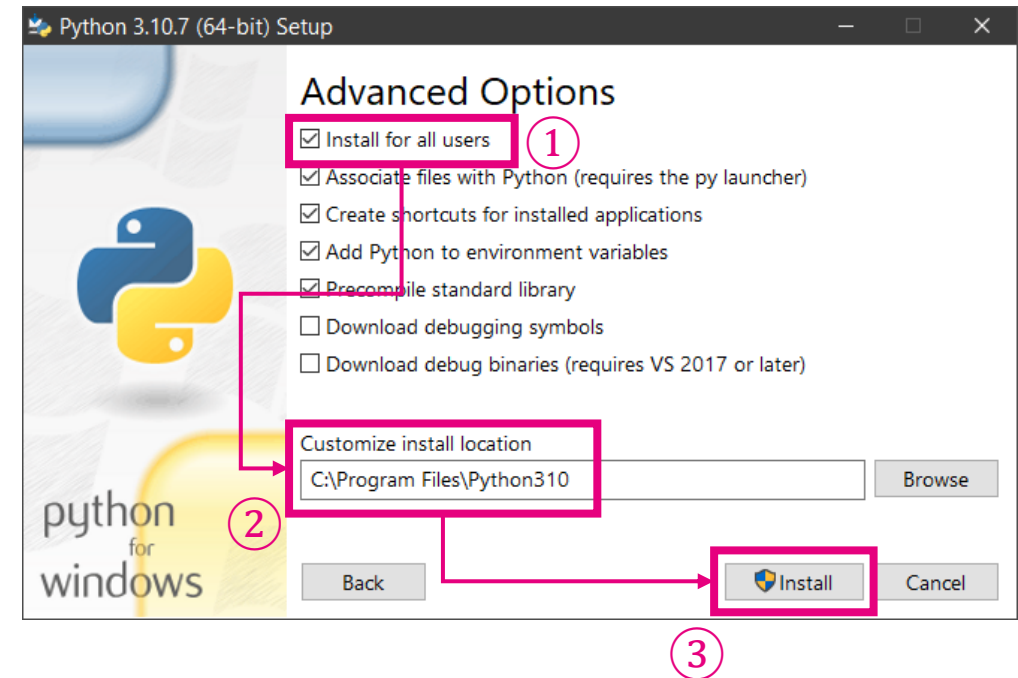


Install Python 3 for Windows (2/2)

3. Click **Next 1 time** and you can see **Advanced Options** window.

You should...

1. Enable / Check **Install for all users**
 2. **Customize install location** should be...
C:\Program Files\Python3xx
 3. Click **Install**
4. Reboot Windows because we add Python 3 PATH on windows ENV.



Install Git for Windows

Install Git for Windows

1. Download latest [Git for Windows](#) installer and **run it as Administrator**.
2. **All of options should not be changed (keep default)**

Install Matter SDK

Setup ENV (1 time only)

1. Run Git Bash **as Administrator**
2. Make working folders.
 - a) `mkdir /c/ST`
 - b) `cd /c/ST`
 - c) Download [zip file](#) and extract it in c:\ST (make sure to download version 1.3.0.0)
 - d) `cd connectedhomeip-1.3.0.0`
 - e) `python.exe -m pip install --upgrade pip`
 - If error, you should back to python install slide and uninstall Python, reboot windows and re-install Python
 - f) `pip install PORTALOCKER click lark jinja2 stringcase coloredlogs`
 - g) Modify ./scripts/tools/zap/generate.py file

Modify `./scripts/tools/zap/generate.py`

(“fcntl” python module can’t be used on Windows)

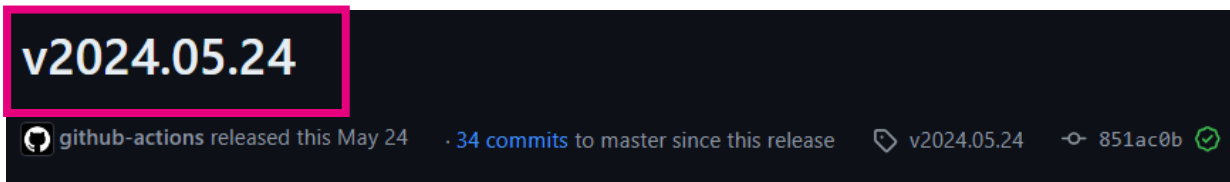
- Line #19
 - Before: `import fcntl` (p.s. “fcntl” python module can’t be used on Windows)
 - After: `import portalocker`
- Line #337
 - Before: `fcntl.lockf(self.lock_file, fcntl.LOCK_EX)`
 - After: `portalocker.lockf(self.lock_file, portalocker.LOCK_EX)`
- Line #343
 - Before: `fcntl.lockf(self.lock_file, fcntl.LOCK_UN)`
 - After: `portalocker.lockf(self.lock_file, portalocker.LOCK_UN)`

In a different version of the Matter SDK these changes may be located at different lines!

Install ZAP for windows

Zap Tools

1. Open [this site](#).
2. Download the Zap Tools for Windows version 2024.05.24

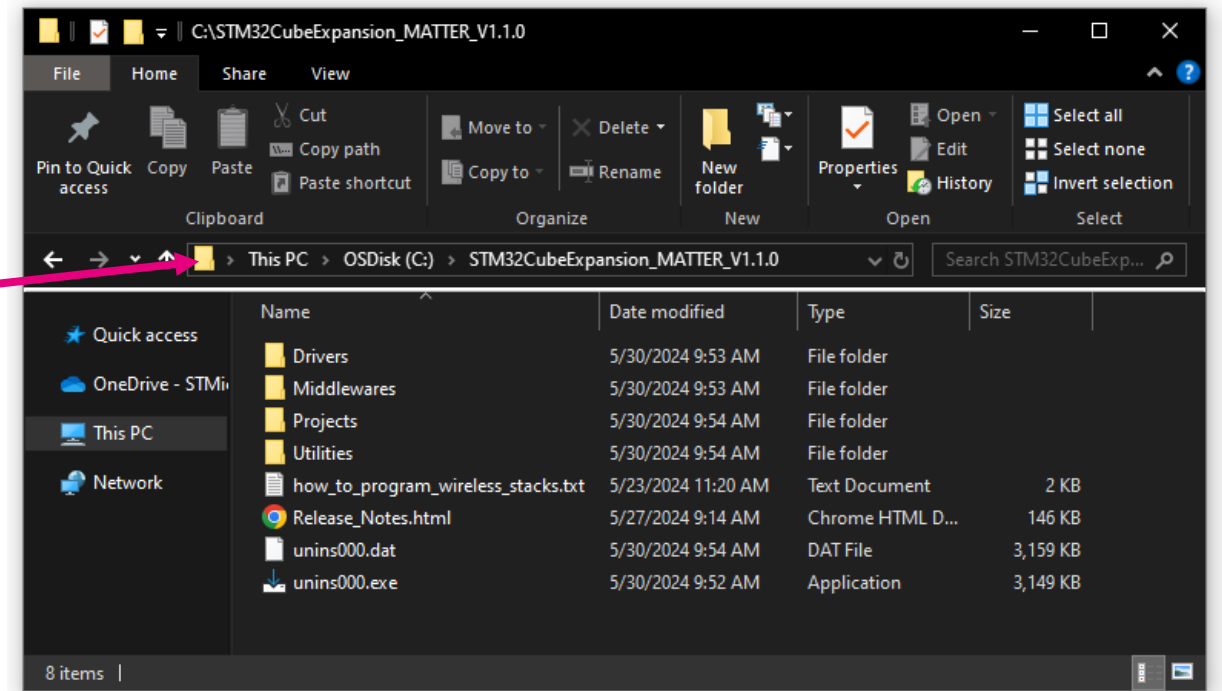
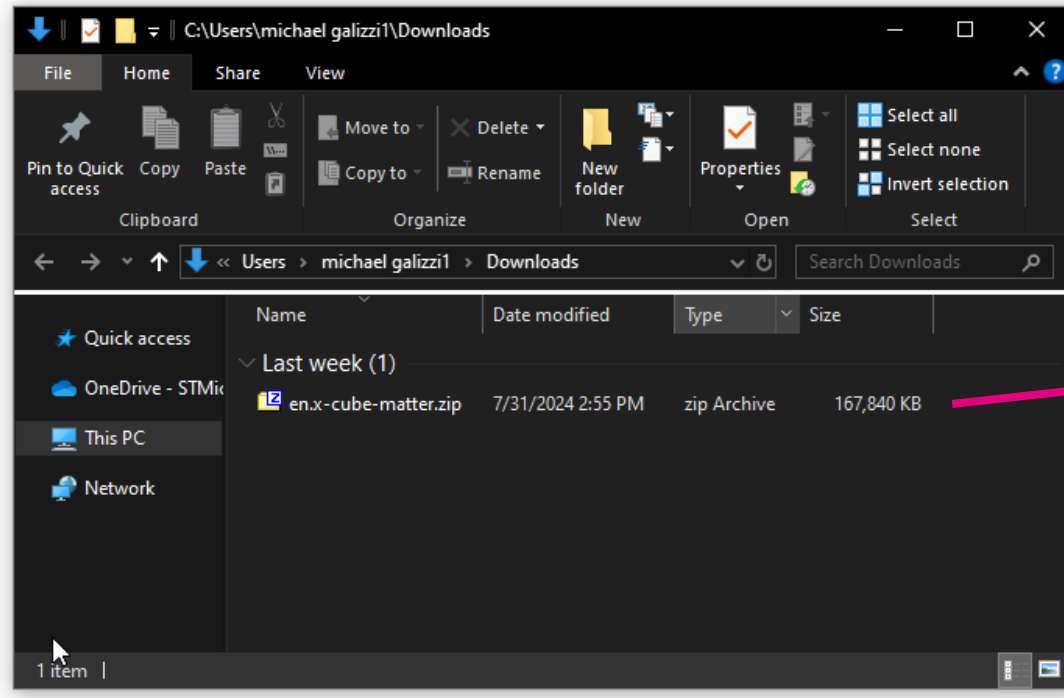


3. Find zap-win-x64.zip
<https://github.com/project-chip/zap/releases/download/v2024.05.24/zap-win-x64.zip>
4. Extract it on **c:\ST\zap-win-x64**
 - In this folder, you can find zap-cli.exe and zap.exe

Install X-Cube-MATTER 1.1.0

X-Cube-MATTER installation

Extract the X-Cube-MATTER package in the **C:** directory.
Be aware that long paths may cause compilation issues.



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