

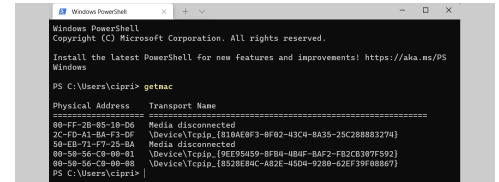


# How to change or spoof the MAC address in Windows (7 ways)

TUTORIAL  Codrut Neagu  01/07/2022

Changing the MAC address of a network card is not something most users have to do. However, some users may need to spoof the MAC address of their Windows computer to cope with different problems or network restrictions. To help you in such situations, we will share all the methods we know for changing the MAC address of a network card in Windows:



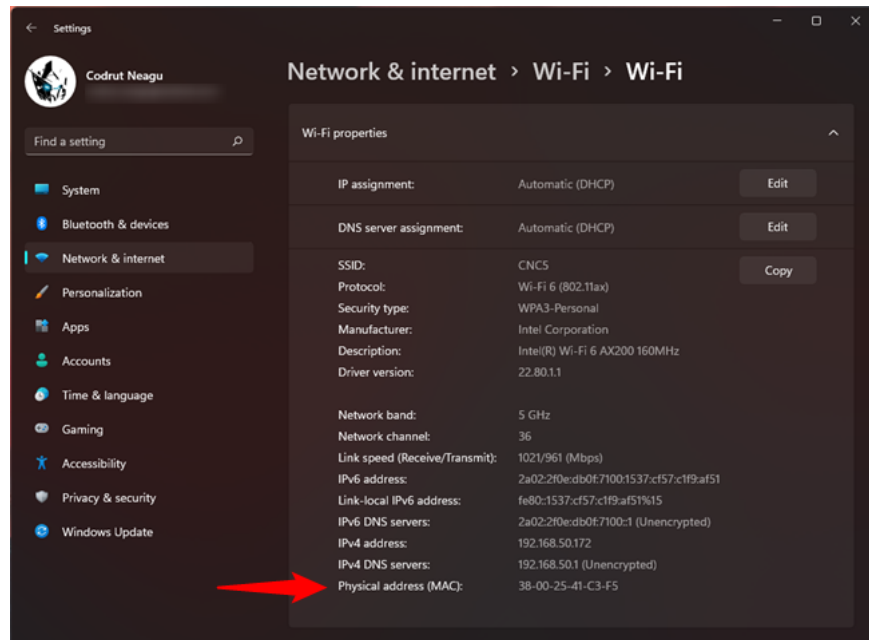
```
Windows PowerShell
Mandoor PowerShell
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PS C:\Users\cipri> getmac

Physical Address      Transport Name
-----
00-FF-2B-45-30-06     Media disconnected
2C-FD-A1-8A-F3-0F     \Device\NPF{B19AE8F3-8F02-43C4-8A35-25C28883274}
58-E8-71-F7-25-BA     Media disconnected
80-58-56-C8-80-81     \Device\NPF{0EE95459-8F04-4B4F-BAF2-F82C3187592}
80-58-56-C8-80-88     \Device\NPF{1852884C-A82E-4504-9288-62EF39F08867}
PS C:\Users\cipri>
```

## Why change the MAC address in Windows?

The reasons derive from the use of the [MAC address](#) in network management. The MAC address identifies the device connected to a network and allows the network to track, restrict or allow access based on it.



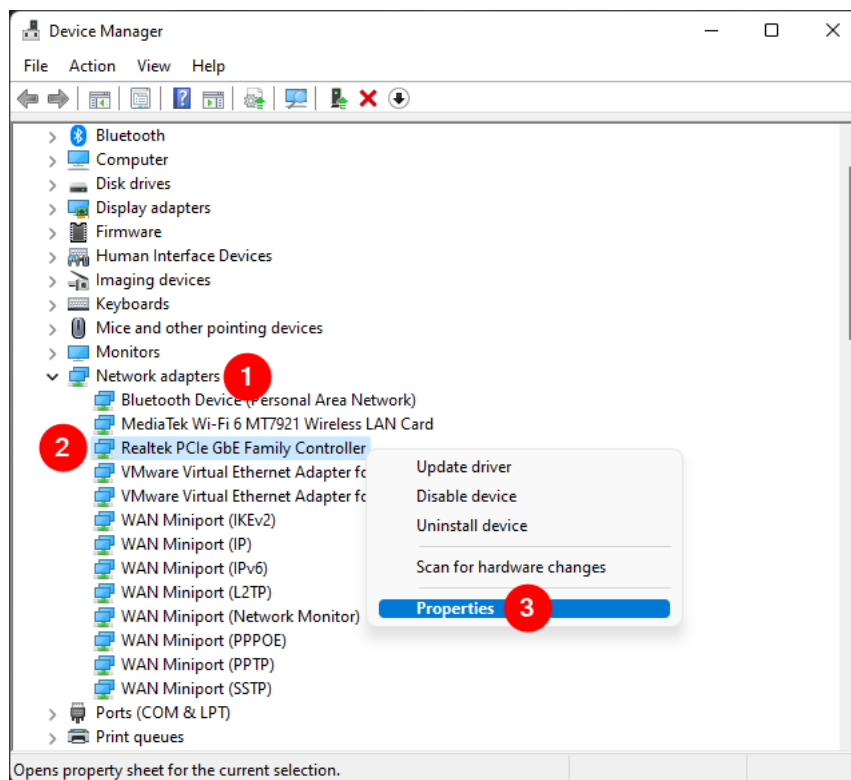
For example, if you need to assign a static IP address, your router identifies and gives the static IP address based on the MAC address. Changing the MAC address comes in handy when it is difficult or cumbersome to change the MAC address rules for your network. As another example, if you change your Windows computer, or only the network card, and your ISP restricts your access to the internet using your MAC address, it's easy to change the MAC address to the old one and regain internet access just like before the change.

There are other situations too when you might want to change your MAC address, like when you connect to a work or school Wi-Fi network. If your organization's network administrator restricts internet usage based on your MAC address, you can spoof the MAC address to attempt bypassing those restrictions.

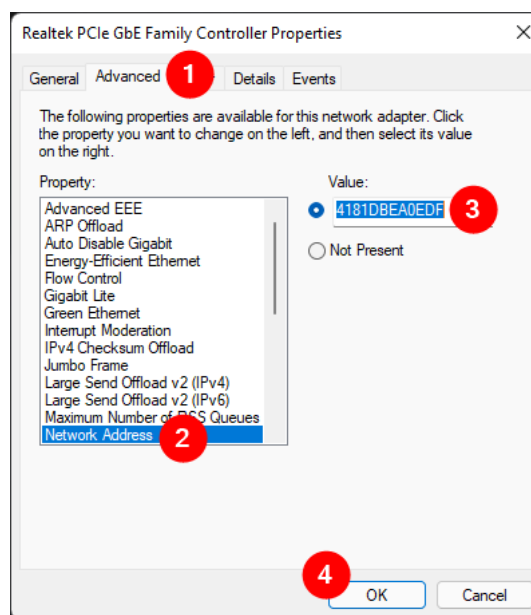
If you need or want to know your current MAC address, before changing it, check these [7 ways to find your MAC address on Windows](#). Also, if you need to restore the original MAC address, here are [six methods to do it](#). Keep in mind that after you change the MAC address in Windows 11 or Windows 10, the new one becomes active only after you restart your network card (you can disable and enable it) or restart your Windows computer.

## 1. How to change the MAC address in Windows 11 and Windows 10 using Device Manager

Regardless of whether you use Windows 11 or Windows 10, [open the Device Manager](#) on your computer or device. In the *Device Manager* window, expand the list of *Network adapters* by clicking or tapping on their entry. Then, right-click or press and hold the network card for which you intend to change the MAC address and select *Properties* in the contextual menu.



In the network adapter's *Properties* window, head to the *Advanced* tab. In the *Property* list, select *Network Address*, and then type the new MAC address inside the *Value* field on the right side of the window. When finished, press the *OK* button.

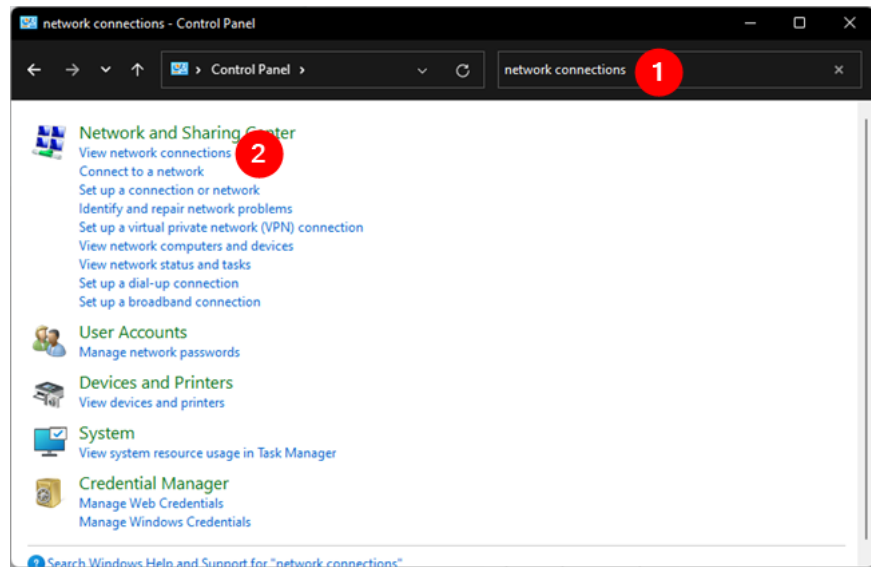


Windows changes the MAC address immediately, but you'll need to reboot your PC to start using it.

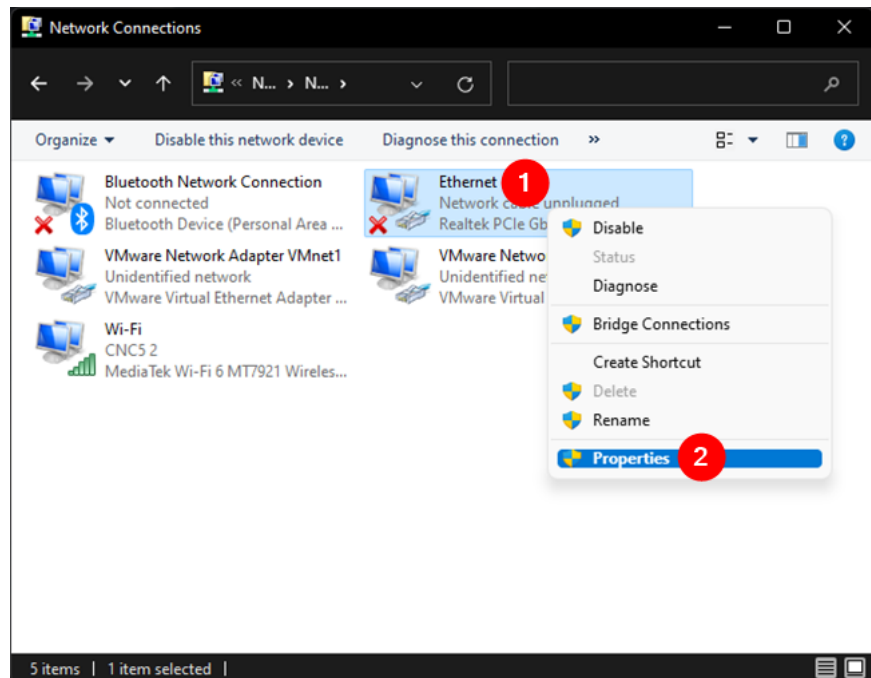
**NOTE:** If you can't find the *Network Address* property, the driver of your network adapter doesn't support this field out of the box. In that case, follow the third or fourth methods from this guide.

## 2. How to change your MAC address in Windows 11 or 10 from the Control Panel

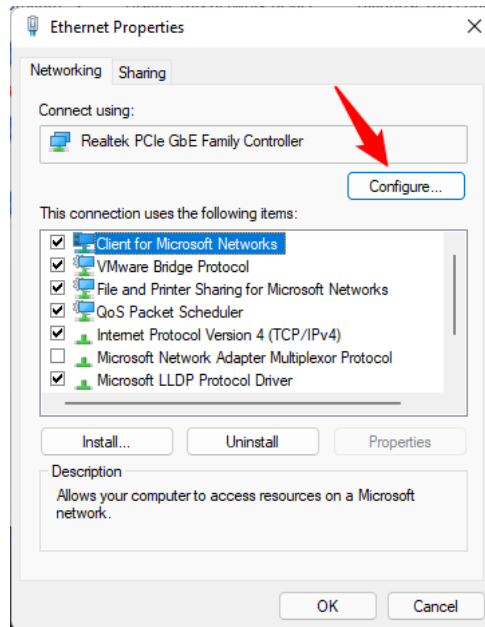
You can also [use the Control Panel](#) to change the MAC address, both in Windows 11 and Windows 10. Open it and search for "network connections." Then, click or tap the "View network connections" link from the search results list.



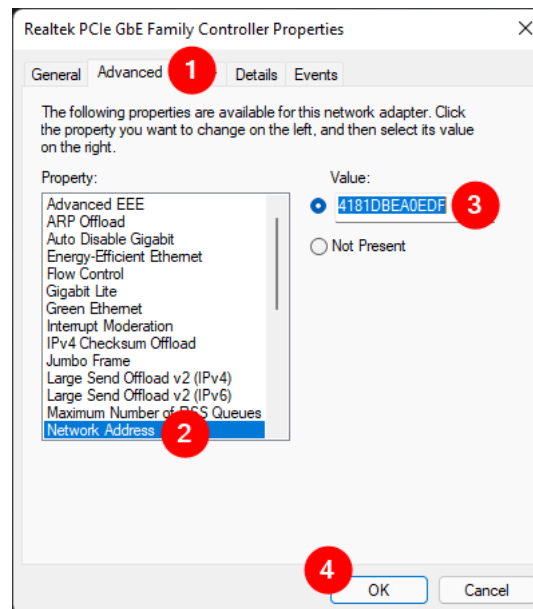
This brings up the *Network Connections* window. Locate the network connection for which you want to change the MAC address, right-click or press and hold on it, and select *Properties* in the contextual menu.



In the selected network connection's *Properties* window, press the *Configure* button.



In the *Properties* window of the network adapter, go to the *Advanced* tab. Locate and select *Network Address* in the *Property* list and type the new MAC address *Value* you want on the right side. Once you're done, press the *OK* button.

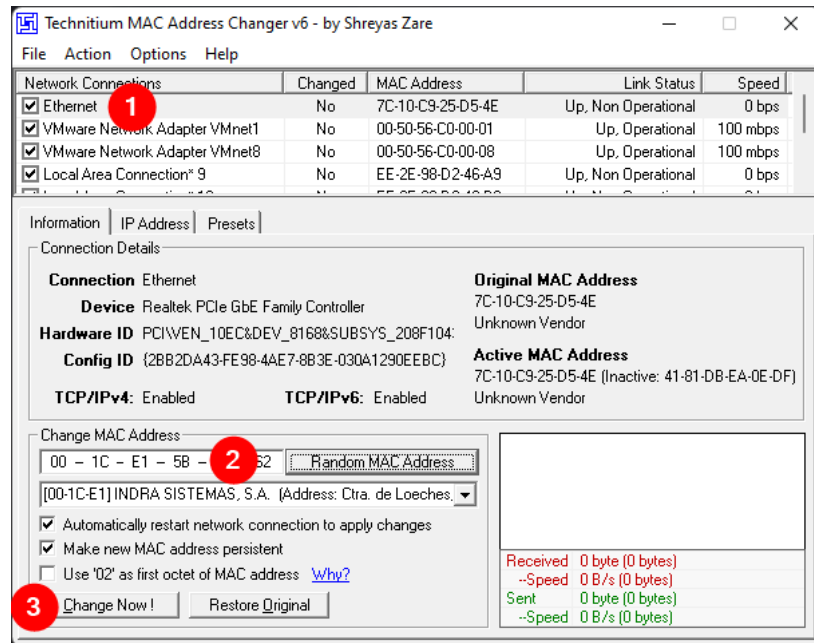


The new MAC address value is stored in Windows, and after you reboot your PC, it's ready to use.

**NOTE:** If you can't find the *Network Address* property, it's probably because your network card's driver doesn't support it out of the box. In that case, follow one of the next two methods in this tutorial.

### 3. How to change the MAC address in Windows using third-party software

We recommend using [Technitium MAC Address Changer](#), a freeware utility that allows you to spoof the MAC address. Download, install and open this app. Then, in the *Technitium MAC Address Changer* window, select the network connection in the top list. Type the new MAC address in the *Change MAC Address* field and press the *Change now* button.



**NOTE:** This app also allows you to spoof your MAC address by randomly generating new ones. To do that, click or tap the *Random MAC Address* button from the right side of the *Change MAC Address* field.

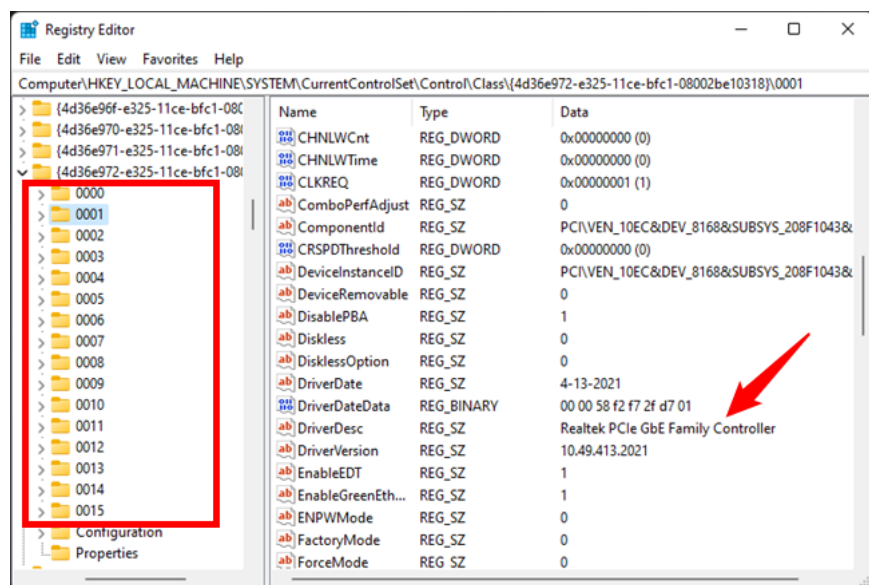
By default, *Technitium MAC Address Changer* instantly applies the new MAC address by automatically restarting your network connection. That means that you don't need to reboot your PC to apply the change. However, you can modify this behavior by checking or unchecking the option called "Automatically restart network connection to apply changes."

#### 4. How to change the MAC address in Windows using the Registry Editor

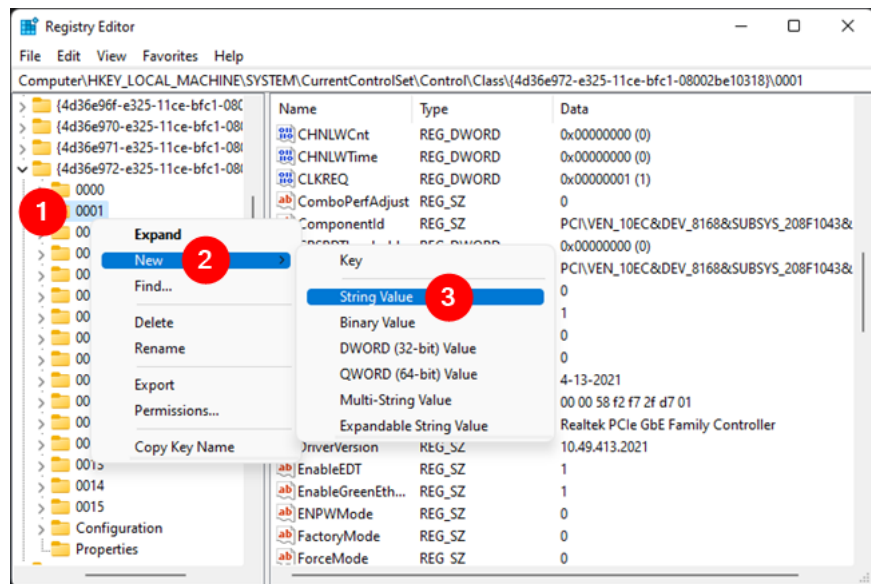
Start the [Registry Editor](#) as administrator and use its address bar or its navigation panel on the left to get to this path:

Computer\HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}

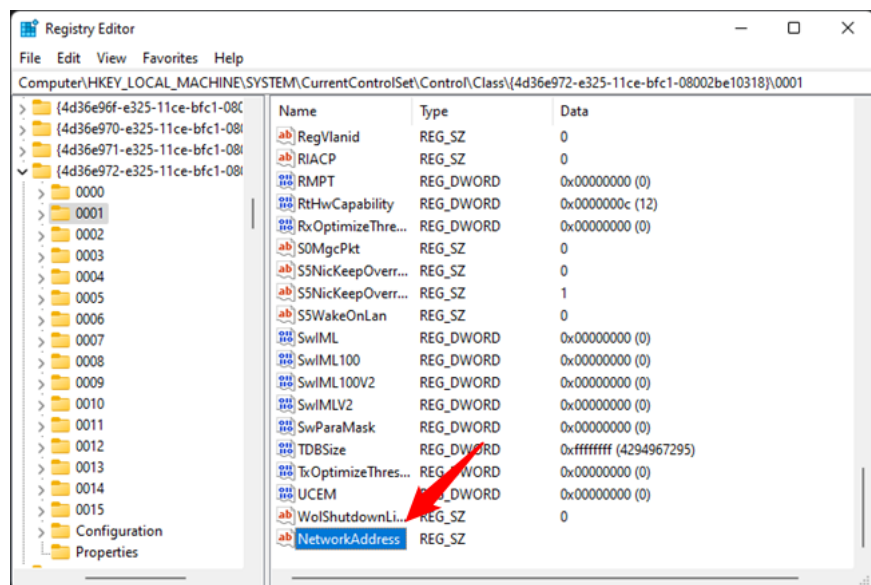
Underneath this node, you should see the list of all the network interfaces found on your Windows PC. Browse through them and check the information displayed on the right panel to identify the one you need to change. The *DriverDesc* field is the most likely to help you pinpoint the right network card.



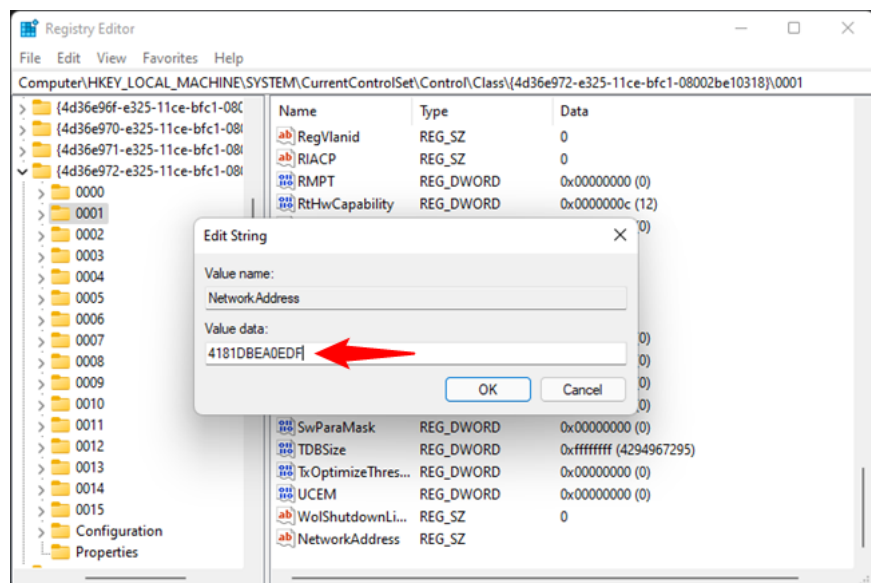
Right-click or press and hold on the network card node in the left panel, choose *New*, and select *String Value* in the contextual menu.



On the right panel, type in *NetworkAddress* as the name of the newly added string value. Then, double click or double-tap to edit the *NetworkAddress*.



In the *Edit String* window, type in the new MAC address that you want to apply to your network card.



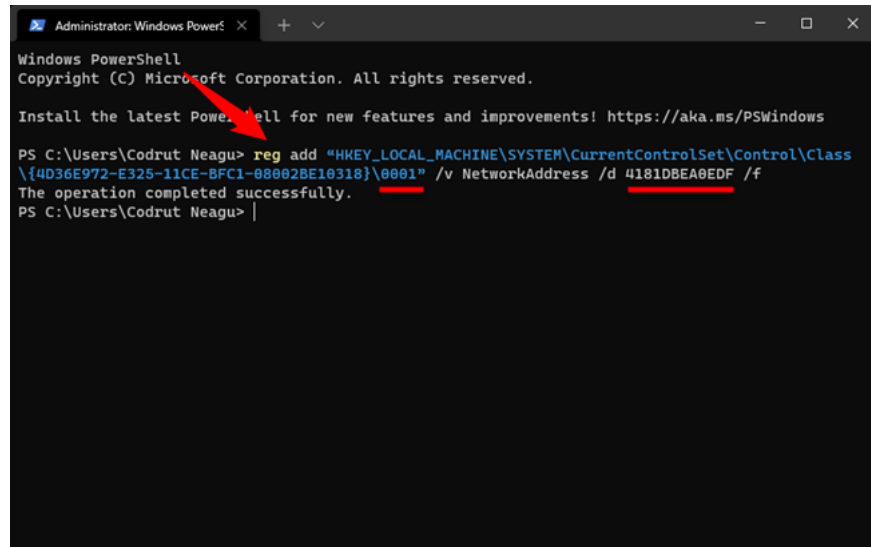
Finally, press *OK* and restart your computer to start using the newly set MAC address.

## 5. How to change the MAC address in Windows 11 or Windows 10 from the command line

Once we've learned how to change MAC addresses from the *Registry Editor*, we can now speed up this change using the *reg* command in the command line with *Terminal*, *Command Prompt*, or *PowerShell*. If you need to switch repeatedly between different MAC addresses on your Windows computer, you can store and run the command we describe in this section in a script file to speed up the procedure.

First, [open the Terminal](#), [Command Prompt](#), or [PowerShell](#) as administrator, depending on which app you prefer to use.

Before you execute the command in the screenshot below, you need to replace two strings that we have underlined. The first string is associated with the network card that you want to change in *Windows Registry*. Review the previous section to find out how to get this number from the *Registry Editor*. The second string is the new MAC address that you want to assign to the network card.

A screenshot of a Windows PowerShell terminal window titled "Administrator: Windows PowerShell". The window shows the command prompt at "PS C:\Users\Codrut Neagu>". The user has entered the command: `reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\0001" /v NetworkAddress /d 4181DBEA0EDF /f`. The command is split across two lines. A red arrow points to the first line of the command. The output shows "The operation completed successfully." and the prompt returns to "PS C:\Users\Codrut Neagu>".

```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\Users\Codrut Neagu> reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class
\u{4D36E972-E325-11CE-BFC1-08002BE10318}\0001" /v NetworkAddress /d 4181DBEA0EDF /f
The operation completed successfully.
PS C:\Users\Codrut Neagu>
```

Below you find the command in plain text, so you can simply [copy and paste](#) it. Don't forget to edit and change the values that apply to your Windows computer and the specific network card for which you want to change the MAC address:

```
reg add "HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\0001" /v NetworkAddress /d 4181DBEA0EDF /f
```

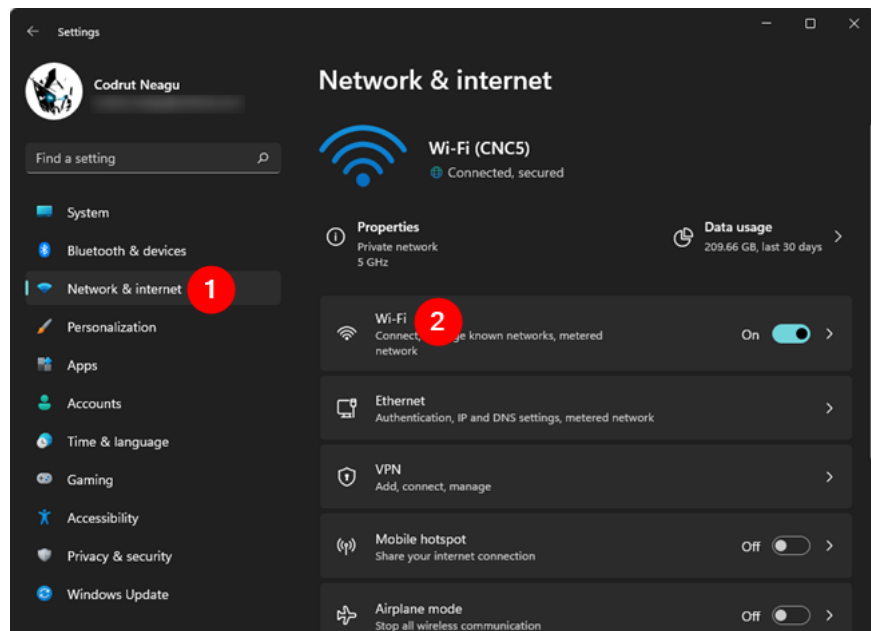
## 6. How to spoof MAC address in Windows 11 (randomize Wi-Fi MAC)

Besides setting a static MAC address that you choose and specify, Windows 11 also allows you to randomize your MAC address each time you connect to a certain Wi-Fi network, as well as to all the wireless networks you will connect. This is probably the most effective way to spoof your MAC address in Windows 11.

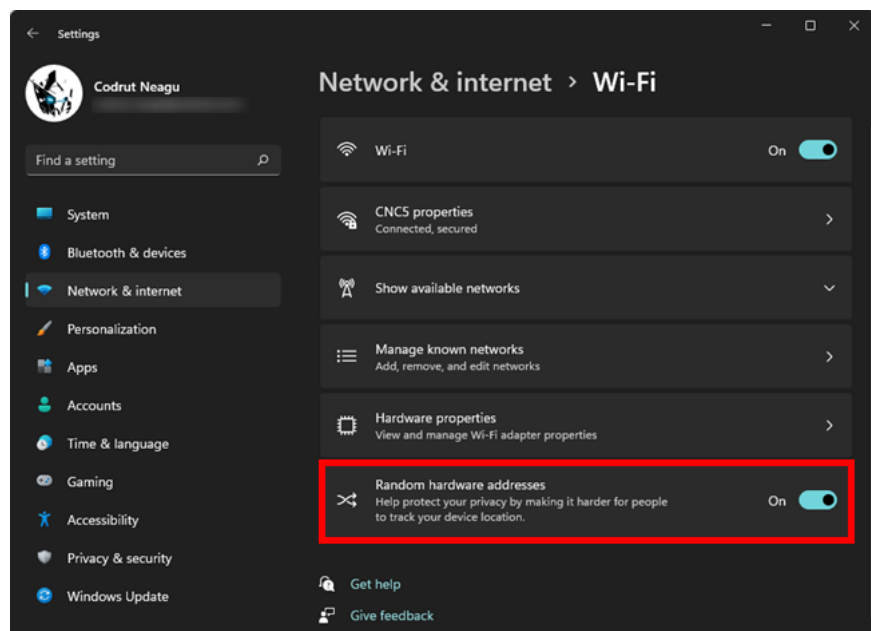
However, note that this is something that's possible only if your network card driver supports MAC randomization. Most network cards these days offer support for random hardware addresses, but there are some adapters, old and new, that don't. If you don't see the settings described in this article section or the next, the best thing you can do to spoof your MAC address is to use a third-party app like the one we talked about in the third chapter of this tutorial. And now, without further ado, here's how to randomize your MAC address in Windows 11:

[Launch the Settings app](#), select *Network & internet* on the left sidebar, and click or tap on *Wi-Fi* on the right.



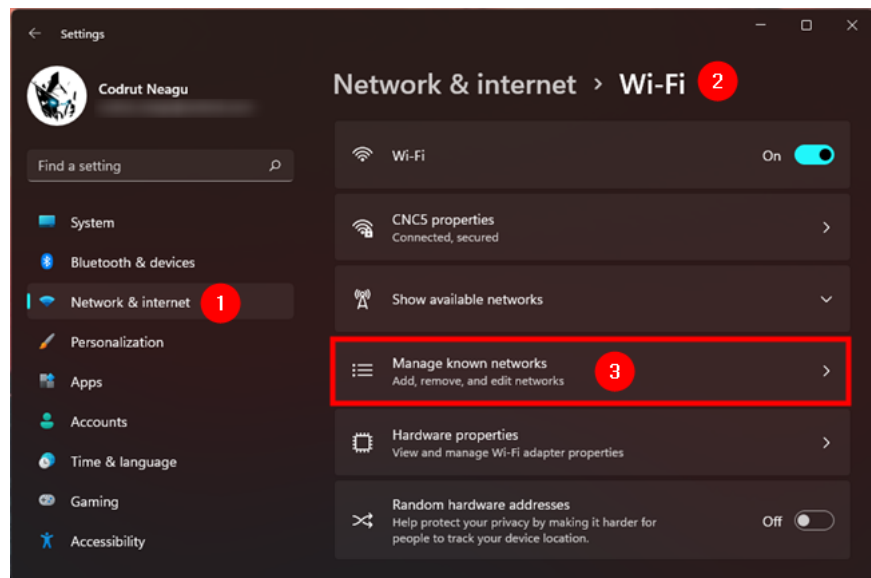


Next, if you want to spoof your MAC addresses for all the Wi-Fi networks, enable the switch called *Random hardware addresses* found at the bottom of the window.

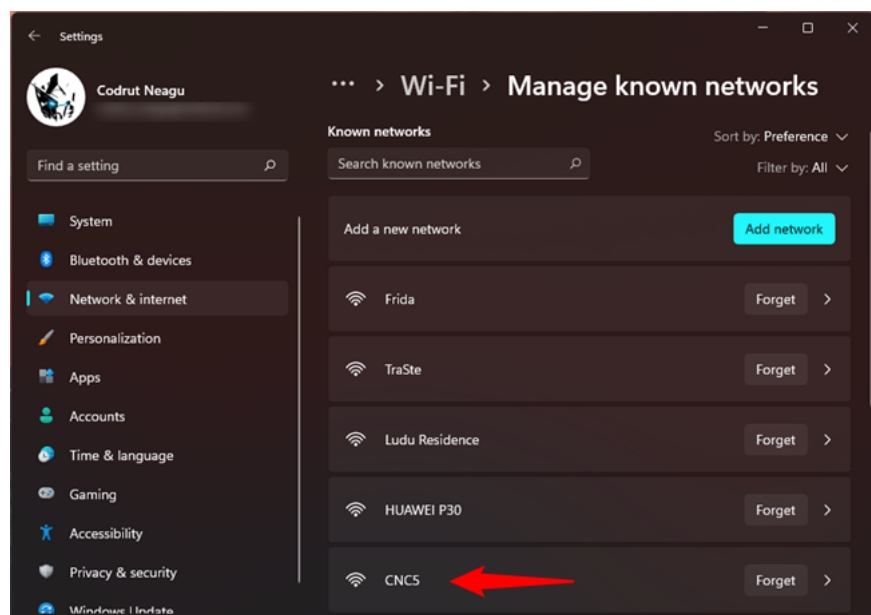


If you'd instead spoof the MAC address only for a specific Wi-Fi network, on the *Wi-Fi* page from the *Settings* app, click or tap on *Manage known networks*.



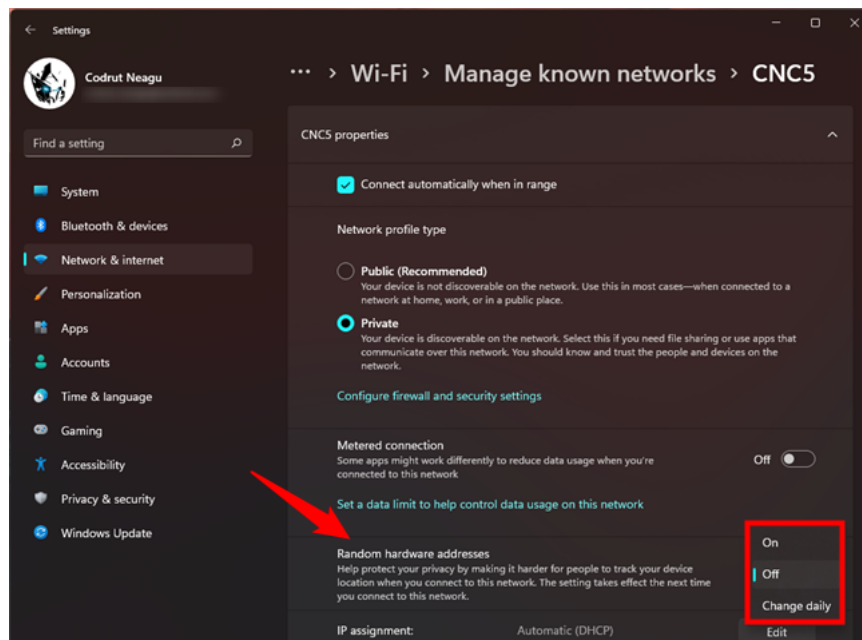


Then, choose a wireless network from the list by clicking or tapping on it.



On that Wi-Fi network's page, locate the *Random hardware addresses* setting, click or tap on the drop-down list on its right side, and select the option you prefer:

- *Off*: default setting, your computer uses the original MAC address when connecting to the selected Wi-Fi network
- *On*: spoofs your MAC address by randomizing it each time you connect to the selected Wi-Fi network
- *Change daily*: Windows 11 spoofs your MAC address when you connect to the chosen Wi-Fi network on a daily basis, even if you connect to it multiple times during the day.

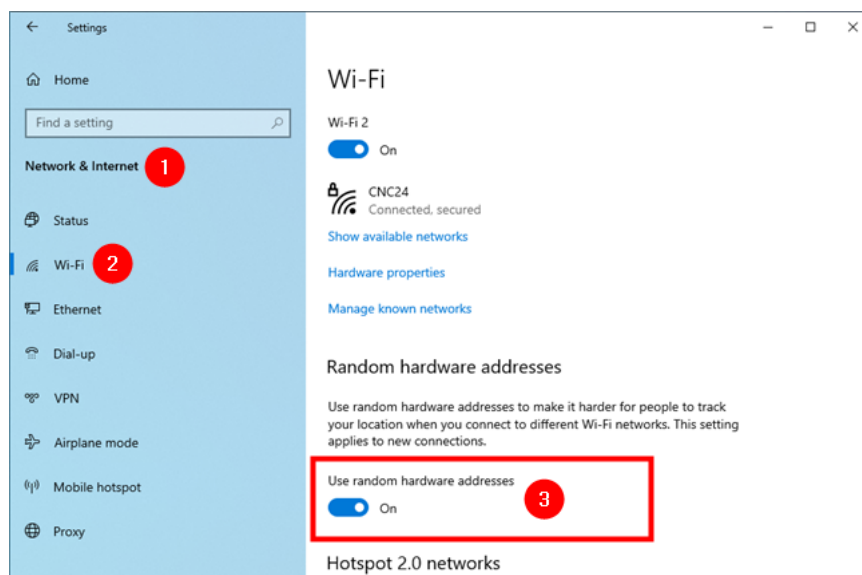


Note that this setting applies the next time you connect to the selected Wi-Fi network. If you want to do that right now, you need to [reconnect to your Wi-Fi](#) or [disable and re-enable Wi-Fi on your Windows 11](#) computer or device.

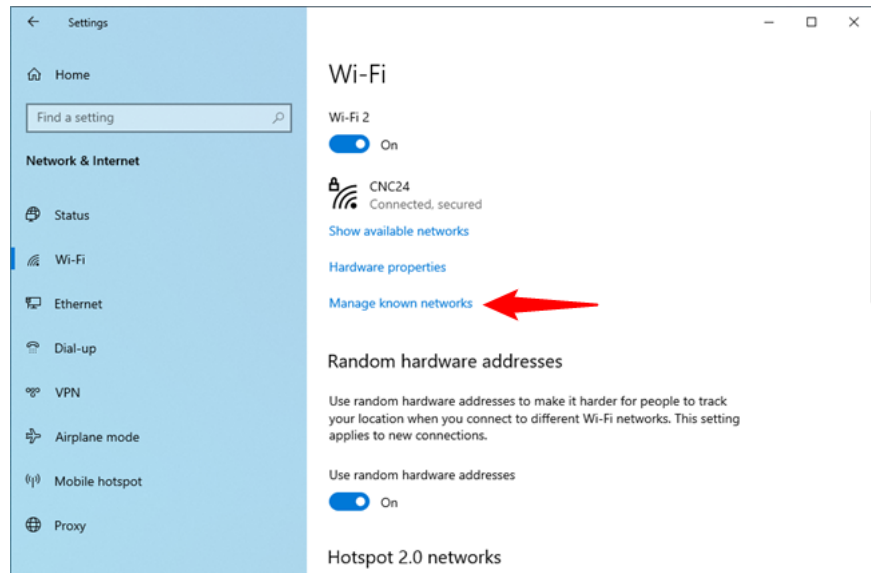
## 7. How to spoof MAC address in Windows 10 (randomize MAC)

Just like in Windows 11, Windows 10 also allows you to spoof your MAC address when connecting to Wi-Fi networks. However, this is possible only if your network adapter driver offers support for MAC randomization. Although most network cards today do, many older adapters, as well as some newer ones, don't. If you can't find the settings described in the next paragraphs, your network adapter can't spoof your MAC out of the box. As an alternative, you might want to try using a third-party app like the one we presented in the third section of this tutorial. Now let's see how to randomize your MAC address in Windows 10 if your drivers allow it:

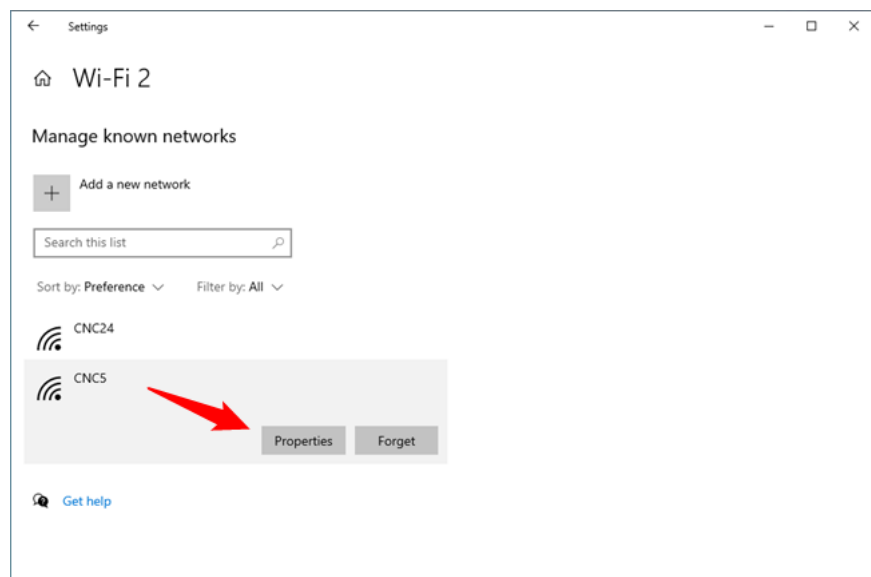
If you want to spoof your MAC address on all the wireless connections, [open the Settings app](#). In it, navigate to *Network & Internet* and select *Wi-Fi* on the left sidebar. On the right side of the window, turn on the switch called "Use random hardware addresses."



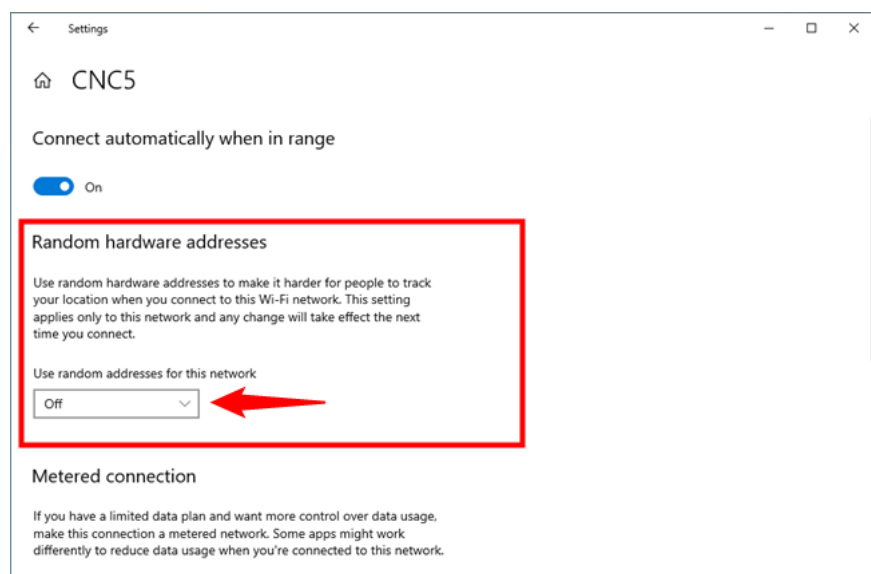
Or, if you only want to spoof the MAC address for a particular Wi-Fi network, click or tap the *Manage known networks* link.



On the *Manage known networks* page, select the Wi-Fi connection for which you want to spoof the MAC address.

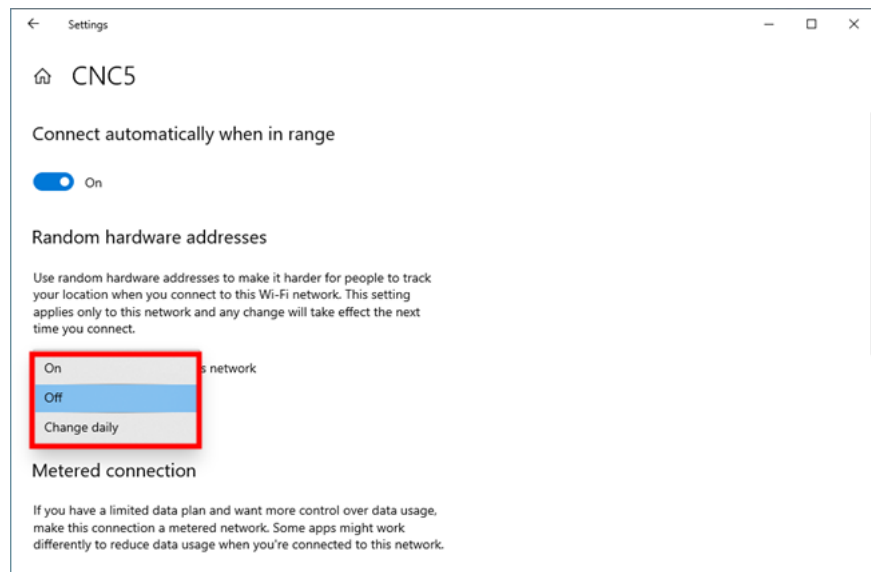


Locate the *Random hardware addresses* section and the setting named "Use random addresses for this network." Then, click or tap the drop-down list under the latter.



Windows 10 lets you choose one of three options to spoof your MAC address for the selected Wi-Fi network. Select the one you prefer:

- *Off*: it's the standard setting, which makes your computer use its original MAC address when you connect to the selected Wi-Fi network
- *On*: spoofs the MAC address by setting a random one each time you connect to the selected Wi-Fi network
- *Change daily*: Windows 10 spoofs the MAC address daily for the chosen Wi-Fi network, so it uses the same random MAC address throughout the day but different ones every day.



Note that this change applies the next time you connect to the chosen Wi-Fi network. If you want to force the MAC address spoofing in Windows 10 right now, you need to [disconnect and reconnect to Wi-Fi](#).

## Why did you change the MAC address?

Changing or spoofing the MAC address is not a common intervention. The security behind the MAC address is relatively poor because, as you've seen, it is easy to change it to any value you want. Keep in mind, though, that you cannot have two devices with the same MAC address active at the same time in a network. Before closing this tutorial, tell us why you want to change your MAC address. We are curious to know the situations in which our readers need to perform this operation. Comment below, and let's talk about this subject.