



AREA SISTEMI E SERVIZI INFORMATICI

**Internet access system through the Wireless Network
of the University of Bologna
MS-Windows 10-11
(last update 05/09/2023)**

Printable service summary document: the updated version is available online at the address <http://www.unibo.it/almawifi>

A WPA2-Enterprise security access system has been implemented on every access point according to the requirements of WI-FI Alliance, which guarantees complete encryption of all the traffic flows. In more detail, the WPA2-Enterprise system has been configured with AES standard (Advanced Encryption Standard), where active directory users of the University DSA are validated by a centralized Radius Server.


We remind you that user credentials should be activated by setting a personal password via the following website: <https://www.dsa.unibo.it>.

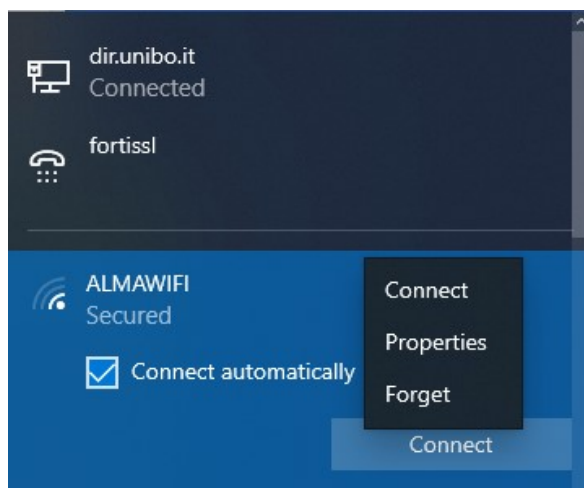


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Previous profile removal

If you experience some problems due to a pre-existent connection or if you want to edit it, we suggest you to delete it before proceeding:

- select the icon  on the application bar
- right click on ALMAWIFI
- select **Forget**






- create a new connection (see below).

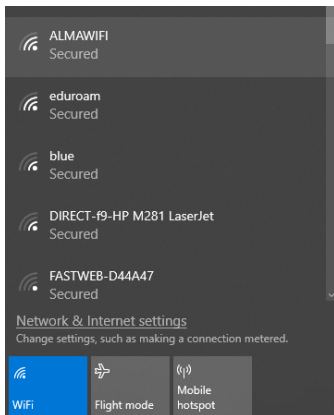


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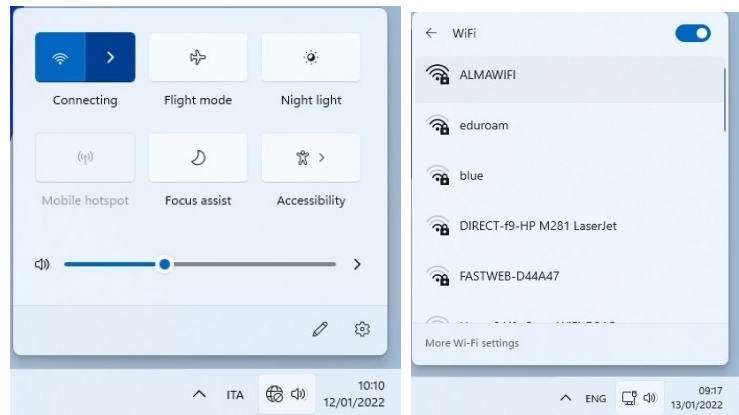
AUTOMATIC CONNECTION CONFIGURATION

1. Click on the network management icon ( or  or ) on the bottom right to open the available wifi networks (on Windows 11 you first have to click on the icon above **Connecting**) then select **ALMAWIFI**:

Windows 10:

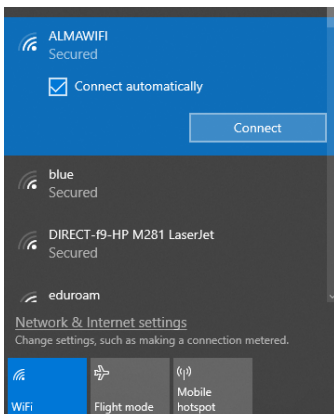


Windows 11:

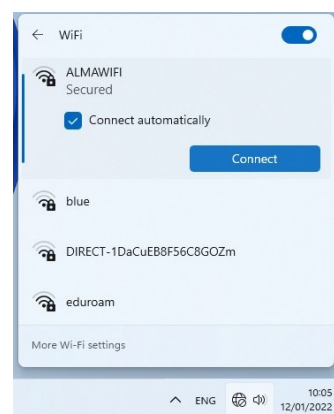


2. Click on **Connect**:

Windows 10:

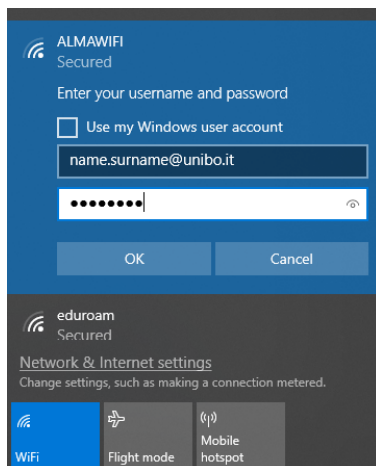


Windows 11:

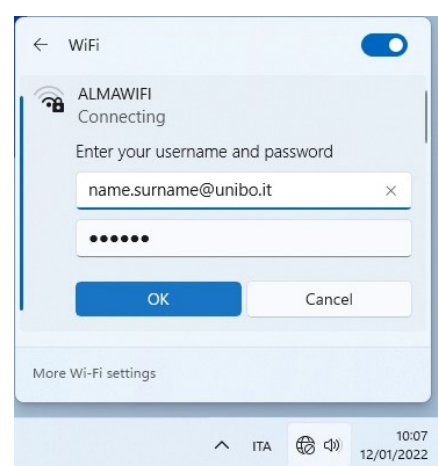


3. Insert your credentials (@unibo.it or @studio.unibo.it) then click **OK**:

Windows 10:



Windows 11:



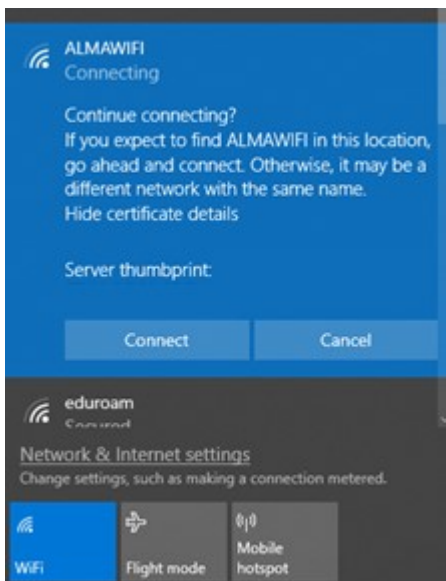


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4. Now you have to check the certificate details to make sure that you're connecting to the right network and not to another wifi network with the same name. Click on **Show certificate details** and confront the **Server thumbprint** with the one below; Windows 11 also shows the informations about the "Issued by" (must be **GEANT OV RSA CA4**) and "Issued to" (must be **wifi.unibo.it**); in both cases, the correct "Server Thumbprint" is:

AE A3 7C 86 7F D5 B6 A2 26 AB 88 63 40 A9 E2 42 83 41 E5 51

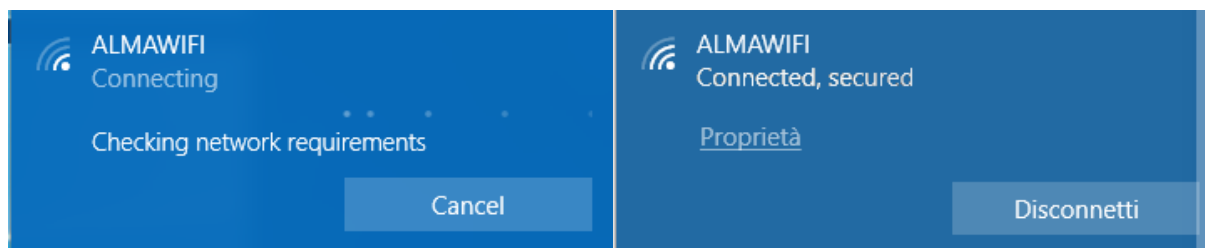
Windows 10:



Windows 11:




5. Wait for the connection to be established:

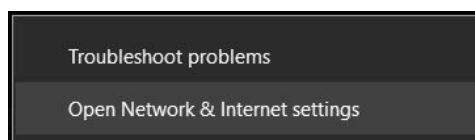




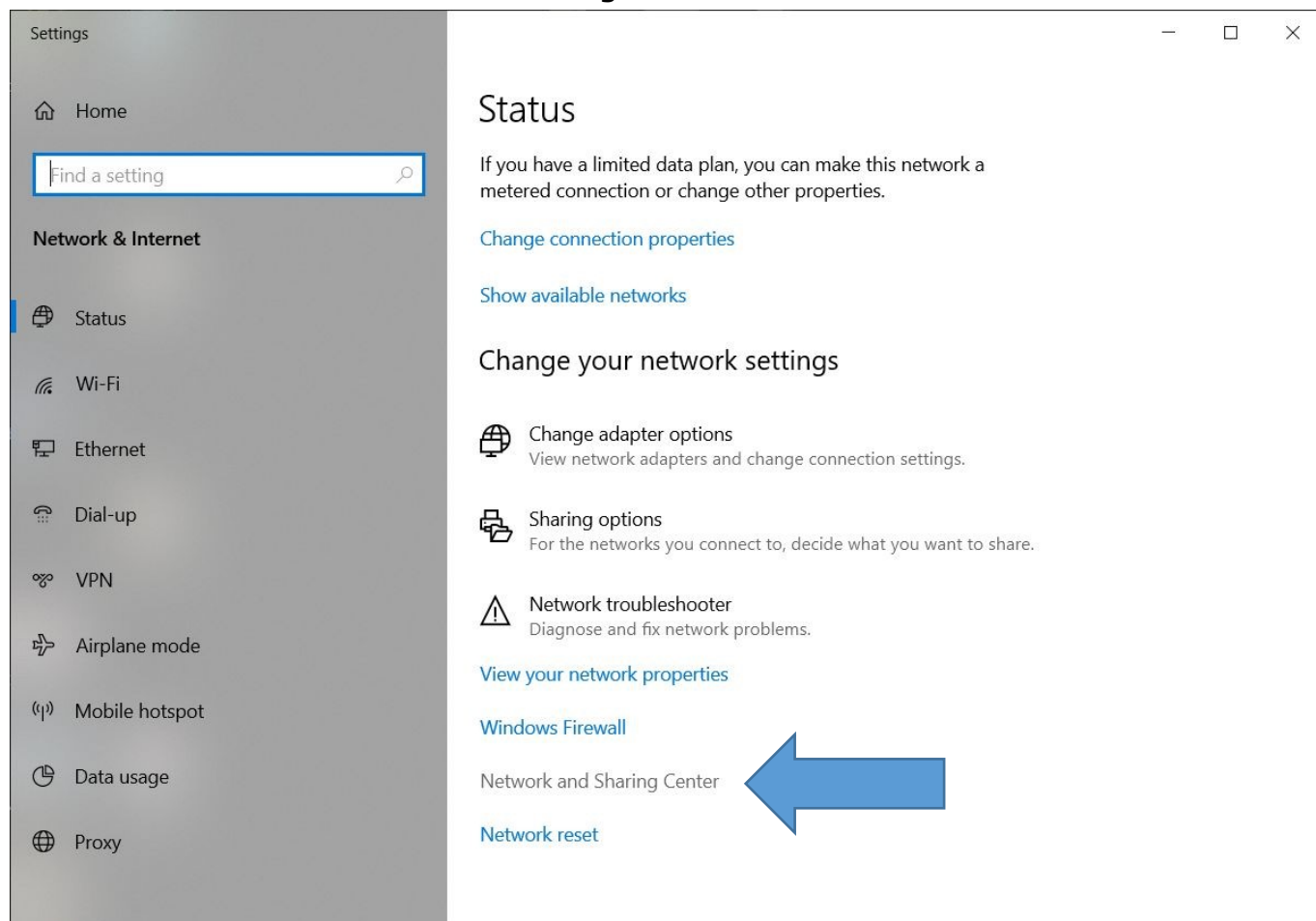
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MANUAL CONNECTION (for WINDOWS 10 only)

On the right side of your Windows taskbar, right click on the Network icon,  and select **Open Network & Internet settings**.



Scroll down and select **Network and Sharing Center**





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Select **Set up a new connection or network**

Network and Sharing Center

< > > Pannello di controllo > Tutti gli elementi del Pannello di controllo > Network and Sharing Center

Pagina iniziale Pannello di controllo

Change adapter settings

Change advanced sharing settings

Media streaming options



View your basic network information and set up connections

View your active networks

Internet
Public network

Access type: Internet
Connections: Wi-Fi





Change your networking settings

-  [Set up a new connection or network](#)
Set up a broadband, dial-up, or VPN connection; or set up a router or access point.
-  [Troubleshoot problems](#)
Diagnose and repair network problems, or get troubleshooting information.

Select **Manually connect to a wireless network**

Set Up a Connection or Network

Choose a connection option

-  **Connect to the Internet**
Set up a broadband or dial-up connection to the Internet.
-  **Set up a new network**
Set up a new router or access point.
-  **Manually connect to a wireless network**
Connect to a hidden network or create a new wireless profile.
-  **Connect to a workplace**
Set up a dial-up or VPN connection to your workplace.

Next Cancel

Click **Next**



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Enter the values shown in the following picture:

← Manually connect to a wireless network

Enter information for the wireless network you want to add

Network name:

Security type:

Encryption type:

Security Key: Hide characters

Start this connection automatically

Connect even if the network is not broadcasting
Warning: If you select this option, your computer's privacy might be at risk.

Click **Next**

Select **Change connection settings**

← Manually connect to a wireless network

Successfully added ALMAWIFI

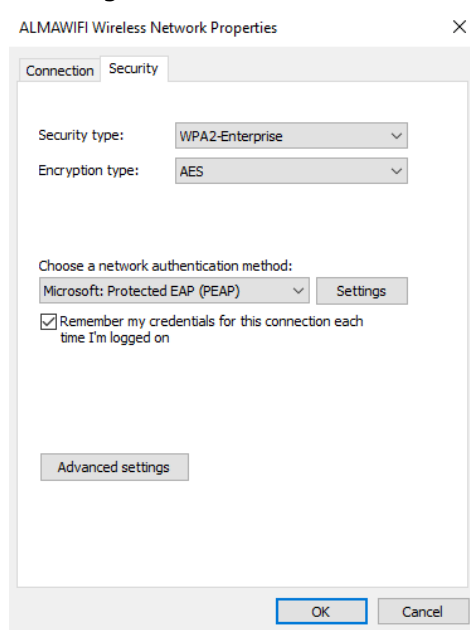
→ [Change connection settings](#)
Open the connection properties so that I can change the settings.



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Select the **Security** tab.

Verify the settings as shown in the image below:



Select the **Settings** button.

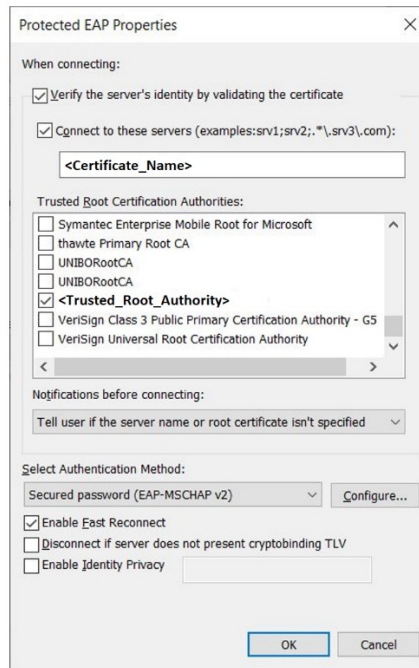
In the **Protected EAP Properties** check the options as in the image below.

In the "Connect to these servers" setting insert: **wifi.unibo.it**

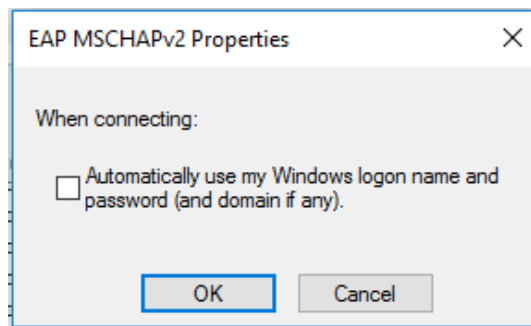
As "Trusted Root Certification Authorities" select: **USERTrust RSA Certification Authority**



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Click the **Configure** button and verify the option as in the image below, unchecking **Automatically use my Windows logon name and password**:



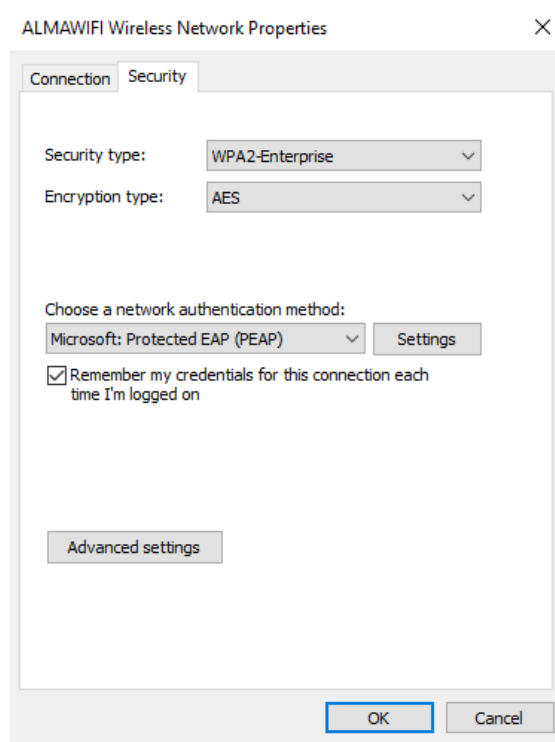
Select **OK** to close the EAP MSCHAPv2 Properties

Select **OK** to close the Protected EAP Properties

In ALMAWIFI Wireless Network Properties select **Advanced settings**



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In the **Advanced settings** window, select the **Specify authentication mode menu** and select **User authentication** then click on **Save credentials** button.



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Advanced settings

802.1X settings 802.11 settings

Specify authentication mode:

User authentication Save credentials

Delete credentials for all user:

Enable single sign on for this network

Perform immediately before user logon

Perform immediately after user logon

Maximum delay (seconds): 10

Allow additional dialogs to be displayed during single sign on

This network uses separate virtual LANs for machine and user authentication

OK Cancel

Insert your credentials:

Windows Security

Save credentials

Saving your credentials allows your computer to connect to the network when you're not logged on (for example, to download updates).

name.surname@unibo.it

Password

OK Cancel

Windows Security

Save credentials

Saving your credentials allows your computer to connect to the network when you're not logged on (for example, to download updates).

name.surname@studio.unibo.it

Password

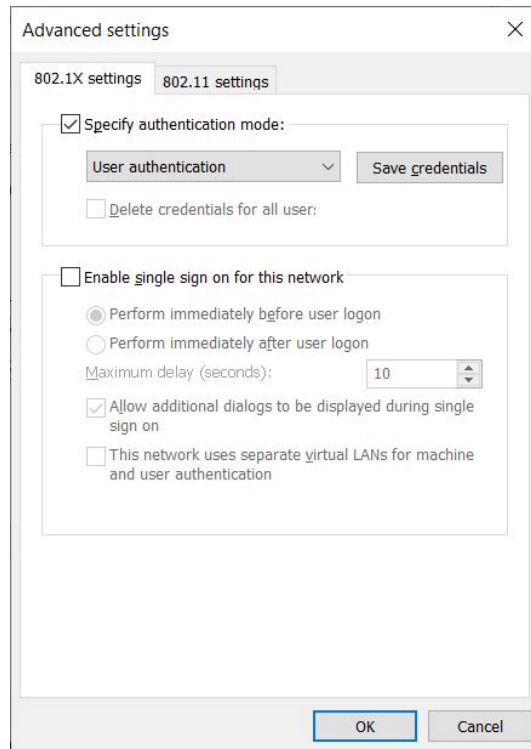
OK Cancel

Select **OK** to close **Windows Security**

In the **Advanced Settings window** click **OK** to close it



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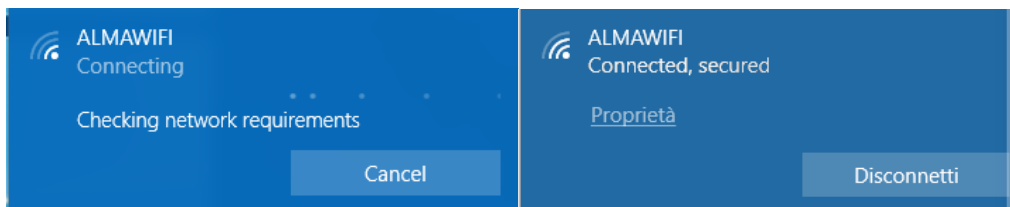
Select the **OK** button to close the Wireless Network Properties window.
Select the **Close** button for the manual wireless network windows.

Select the Network icon  and select ALMAWIFI.



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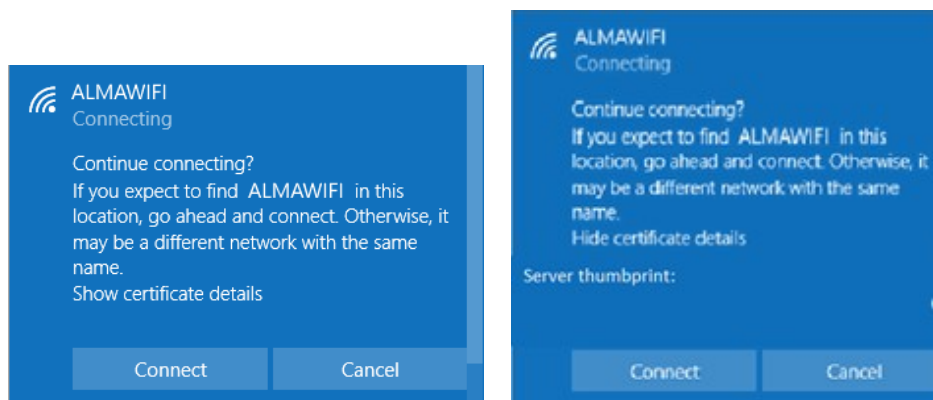
Wait for the connection to be established:



If pre-existent ALMAWIFI profile wasn't removed you'll see an alert.

By clicking on **Show certificate details** you can check the Server thumbprint, which must be: **AE A3 7C 86 7F D5 B6 A2 26 AB 88 63 40 A9 E2 42 83 41 E5 51**

Click on **Continue**.



Wait for the connection to be established:

