

#### AREA SISTEMI E SERVIZI INFORMATICI

# Internet access system through the Wireless Network of the University of Bologna

(*last update 6/3/2017*)

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

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: <u>https://www.dsa.unibo.it</u>.

You can connect to the Wireless Network AlmaWiFI from Windows 8.x systems in two ways:

- **automatic connection**: it requires only the authentication provided by @unibo.it or @studio.unibo.it active credentials
- **manual connection**: useful on Windows 8.x home or RT systems that have trouble connecting to 802.1x networks and in which automatic connection doesn't work

## 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:

- run the command prompt window as Administrator (press key Windows + X or right click on "Start")
- write the command line: *netsh wlan show profiles*
- write the command line: (where "PROFILETODELETE" netsh wlan delete profile name="PROFILETODELETE" is the current AlmaWiFi profile you must delete)
- close the command prompt and start the manual connection (see below)

#### **Automatic connection Windows 8.1**

Select the Network icon ( in Windows 8, in Windows 8.1). For ALMAWIFI check Connect automatically and select Connect.

Networks	Network Authentication
Airplane mode Off	
Connections	User name
Network Connected 『규	Password
Wi-Fi	Domain:
ALMAWIFIII	
V Connect automatically	OK Cancel
Connect	

Enter your ALMAWIFI / @studio.unibo.it or @unibo.it username and password in the required fields:

Network Authentication	Network Authentication
name.surname@unibo.it	name.surname@studio.unibo.it
· · · · · · · · · · · · · · · · · · ·	
Domain: unibo.it	Domain: studio.unibo.it
OK Cancel	OK Cancel

On the right, you'll see an alert. By clicking on "Show certificate details" you can check the Server thumbprint. Click on "Continue".





Wait for the connection to be established:

• Networ	ks
ALMAWIFI	
Checking netw	vork requirements

Airplane mode	
Off	
Connections	
Network	Connected 『구
Wi-Fi	
ALMAWIFI	Connected

**Wireless Network - ALMAWIFI** 

## MANUAL CONFIGURATION

From the Start Menu, select the Desktop tile.

Right click on the Network icon, in Windows 8, in Windows 8.1 and select *Open Network and Connection Sharing*.

Troubleshoot problems
Open Network and Sharing Center
▲ I I I III III IIIIIIIIIIIIIIIIIIIIII

Select Setup a new connection or network.

	Network and Shanng Canter	100
🕘 🔄 🕴 🛉 💆 A Control	Panal + Network and Internet + Network and Sharing Cantar + 0 - Sametri Control Hereit	p
Control Famil Home	View your basic network information and set up connections	
Change adapter settings	Tiew your active networks	
Change adverced ittering settings	Network Actum type: Vramet Physica network Remedicate Security Income Divide network Connectance I All	
	Ounge your networking settings	
	Set up a new connection or network Set up a broadband, skal-up, or VPN connection; or set up a maker or access point.	
	Treaklasteet perklore Degress and regain network problems, or get treaklasteeting information.	
Two also		
HomeSteap		
Internet Options		
Wextown Freevall		

Select *Manually connect to a wireless network* and then select *Next* button.

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Connect to the internet	al-up connection to t	he internet.	
Set up a new network	um point.		
ACT MANAGEMENT OF	nico odnort	and an employ	
Connect to a workplace		and a set of the set o	
Satur a delong or VPS	zenective to your wi	mpace.	
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Wireless Network - ALMAWIFI

Click " Next " and enter the values shown in the following picture:

			-	
💽 🧟 Manually connec	t to a wireless network			
Enter information f	or the wireless networ	k you want to ac	ld	
N <u>e</u> twork name:	ALMAWIFI			
Security type:	WPA2-Enterprise	~		
Encryption type:	AES	*		
Se <u>c</u> urity Key:		<u>∏</u> Hide	characters	
✓ Start this connect	ion automatically			
Connect even if th	ne network is not broadcastin	9		
warning: if you s	elect this option, your compu	ter's privacy might be	at risk.	
			Next	Cancel

Click "Next" and select " Change connection settings "

Successfully add	led ALMAWIFI	
Change ( Open the co	connection settings onnection properties to that I can change the settings.	

Select the Security tab.

Check Remember my credentials for this connection each time I'm logged on.

Select the Settings button.

the second s	IFI Wireless Network	Properties
Connection Security		
Security type: Encryption type:	WPA2-Enterprise	* *
Ch <u>o</u> ose a network a Microsoft: Protecte	uthentication method:	Settings
Remember my a	redentials for this connection	each
une i mogged (		
Advanced setting	gs	
Advanced setting	gs	
A <u>d</u> vanced setting	<b>J</b> S	
Advanced setting	gs	

Uncheck Verifying the server's identity by validating the certificate. Uncheck Enable Fast **Reconnect**. Select the **Configure** button.

Protected EAP Properties	×
When connecting: $\underline{V} \underline{V} erify  the server's identity by validating the certify the server's identity by validating the certify the server is a server of the server$	icate
☑ Connect to these server	
almawifi.unibo.it	
DigiCert Assured ID Root CA     Class 3 Public Primary Certification Authority     Entrust.net Secure Server Certification Authorit     GTE CyberTrust Global Root     Microsoft Root Authority     Microsoft Root Certificate Authority     Microsoft Root Certificate Authority 2010     C     Notifications before connecting:     Tell user if the server's identity can't be verified     Select Authentication Method:	y ,
Secured password (EAP-MSCHAP v2)	<u>C</u> onfigure
Provide Fast Reconnection         Enforce Network Access Protection         Disconnect if server does not present cryptobinding         Enable Identity Privacy	ן דו.ע Cancel

Wireless Network - ALMAWIFI

#### Uncheck Automatically use my Windows logon name and password.

Select the OK button twice to return to the "ALMAWIFI Wireless Network Properties" window.



Select Advanced settings.

Security type:       WPA2-Enterprise       ✓         Encryption type:       AES       ✓         Choose a network authentication method:       ✓         Microsoft: Protected EAP (PEAP)       ✓       Settings         Remember my credentials for this connection each time I'm logged on       ✓	Connection Security			
Encryption type: AES	Security type:	WPA2-Enterprise		*
Chgose a network authentication method: Microsoft: Protected EAP (PEAP) ✓ Settings □ Remember my credentials for this connection each time I'm logged on Advanced settings	Encryption type:	AES		~
A <u>d</u> vanced settings	Remember my cr	redentials for this connection	<u>S</u> ettings each	
	Remember my cr time I'm logged c	edentials for this connection	<u>S</u> ettings I each	
	Advanced setting	redentials for this connection	settings	
	Advanced setting	redentials for this connection	<u>Settings</u> each	

Select the 802.1x settings tab.

Check Specify authentication mode.

Select **User authentication** from the drop down menu.

Select **OK** for the remaining panels. Click the **Close** button for the manual wireless network windows.

Wireless Network - ALMAWIFI

	Advanced settings
	Advanced settings         802.1X settings         Specify authentication mode:         User or computer authentication         User or computer authentication         Computer authentication         Computer authentication         Guest authentication         Guest authentication         Enable single sign on for this network         ● Perform immediately before user logon         Maximum delay (seconds):         10
	sign on This network uses separate virtual LANs for machine and user authentication OK Cancel
Select the Network ico	n ( Pin Windows 8 in Windows 8.1) an press " <i>Conne</i>

Airplane mode Off	
Connections	
Network	Connected 『구
Wi-Fi	
ALMAWIFI	all
V Connect auto	matically

Wireless Network - ALMAWIFI

Enter your ALMAWIFI / studio.unibo.it or unibo.it username and password in the required fields. Press OK.

	Sicurezza di Windows ×
Salva crede Il salvataggio o rete quando l' aggiornament	enziali delle credenziali consente la connessione del computer alla utente non è connesso, ad esempio per il download di i.
P	nome.cognome@unibo.it
	OK Annulla

On the right, you'll see an alert. By clicking on "Show certificate details" you can check the Server thumbprint. Click on "Continue".

Continue conn	ecting?
If you expect in this locati connect. Ot different ne name.	t to find ALMAWIFI ion, go ahead and herwise, it may be a twork with the same
Hide certificate	details
Server thumbp	orint. 5 77 93 50 F5 40 3E AB 5B

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