Access CELLS Eduroam with Windows 7:

If you are not ALBA Staff, follow your institution Eduroam instructions. Then ump to (Figure.6).

If you <u>belong to ALBA Staff</u>, to correctly connect from abroad to global Eduroam service, also running on ALBA Synchrotron, you <u>must install</u> the ALBA Certificate Authority (CA) for Eduroam in CELLS. Your login and password security relay on this Certificate. Do NOT trust Unknown Certificates, NEVER.

Why? Because once abroad ALBA for a hacker it's easy to install a rogue Wi-Fi hotspot telling the world "I am Eduroam" and getting your login and password if you connect. To avoid get tricked Eduroam uses Certificates, they will <u>warn you</u> if someone is cheating your connection. Install this certificate <u>before</u> going overseas, so you can easily check if you are really connecting to Eduroam or not.

Remember: In Eduroam use ALWAYS secure connections: https / imaps / smtps / VPN.

Get ALBA-Eduroam Certificate here (ALBA intranet access needed, from overseas use Citrix+Mozilla):

https://www.cells.es/static/WiFI-Eduroam-ALBA-CA-up-to-2029.der

(sha256sum: d7ac8bccf00770dd95e6b80c946943996c53f21b3cb869e84e54e27c5383ef2b)

You MUST install it. But how? In Windows is easy, plug and pray.

Once downloaded in your laptop Desktop, double click over it & "open" (Fig.1) the Certificate:

	Certificate
	General Details Certification Path
	Certificate Information This CA Root certificate is not trusted. To enable trust, install this certificate in the Trusted Root Certification Authorities store.
Open File - Security Warning X	Issued to: ALBA Eduroam Radius CA 802.1x
Name:istrator\Desktop\WiFI-Eduroam-ALBA-CA-up-to-2023.der	Issued by: ALBA Eduroam Radius CA 802.1x
Type: Security Certificate From: C:\Users\Administrator\Desktop\WiFI-Eduroam-ALBA-CA	Valid from 10/ 23/ 2017 to 10/ 22/ 2023
Open Cancel	Install Certificate Issuer Statement Learn more about <u>certificates</u>
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not open this software. <u>What's the risk?</u>	2

Click on "Install Certificate" (Fig.2) the "ALBA Eduroam Radius CA 802.1x" certificate on the "Trusted Root Certificate Authorities".

Click over (Fig.3) "Place all certificates in the following store". Use "Browse" and choose "Trusted Root Certificate Authorities". Next (Fig.3) & Finish(Fig.4).

ertificate Import Wizard		Certificate Import Wizard	and some	L
Certificate Store Certificate stores are system areas where certificates are kept.			Completing the Certific Wizard	ate Impor
Windows can automatically select a certificate store, or you can specify a location for the certificate.			The certificate will be imported after y You have specified the following settin	ou click Finish. Igs:
Automatically select the certificate store based on the type of certificate Place all certificates in the following store Certificate store:			Certificate Store Selected by User Tr Content Co	rusted Root Certil ertificate
Trusted Root Certification Authorities Browse				
			•	
Learn more about certificate stores				
< Back Next > Ca	ancel	a	< Back Finis	sh Can

A very (Fig.5) big & alarming security warning shall rise in Windows 7, like this one:



Click "Yes" (Fig.5) and <u>reboot</u> the Win7 laptop. Once up again, connect/enable you laptop WiFi. In ALBA you must see a bunch of CELLS WiFis's, something like (Fig.6) the following left photo.

<u>Right click</u> (Fig.6) over "eduroam" and choose Properties (Fig.7). If not correctly set, add those fields:

Not connected	49	Connection Security	
Connections are availab	le	Security type: WPA2-Enterprise]
Wireless Network Connection	^	Encryption type: AES	
eduroam	<u>ll</u> ı		
albaguest	lle.	Choose a network authentication method: Microsoft: Protected EAP (PEAP) Settings	
cells_wifi_ap	lte.	Remember my credentials for this connection each time I'm logged on	
ALBA	line.		
cells_VoIP_ap	110-		
		Advanced settings	
Open Network and Sharin	ng Center		Cancel

ALBA (Fig.7) uses WPA2-Enterprise, AES, PEAP, MSCHAPv2. Go to Settings(Fig 7). Choose (Fig.8) "Validate server Certificate", "Connect to these servers" 'eduradius.cells.es' and on "Trusted Root Certification Authorities" select the CA we just installed, so "ALBA Eduroam Radius CA 802.1x".

Protected EAP Properties	X
When connecting: Validate server certificate Connect to these servers: eduradius.cells.es;grafit.csuc.cat	
Trusted Root Certification Authorities:	
AddTrust External CA Root ALBA Eduroam Radius CA 802.1x Baltimore CyberTrust Root	
When connecting: Automatically use my Windows logon nam password (and domain if any).	e and
Select Automatication metrod.	
Secured password (EAP-MSCHAP v2)	Configure
Enable Fast Reconnect Enforce Network Access Protection Disconnect if server does not present cryptobinding TLV Enable Identity Privacy OK	Cancel
8.	

Connect to Wi-FI "eduroam" (Fig.6). Windows shall ask you (Fig.9) a login & a password. Remember to use your institution <u>LOGIN@YOUR-DOMAIN</u>. If you are CELLS staff, then should be like <u>jmartorell@cells.es</u>. If is not the case may be like <u>joan.oro@nasa.gov</u>, <u>curie@esrf.fr</u>, <u>me@mit.edu</u>, etc

Windows Security	City of National C		X
Network Au Please enter us	thentication er credentials		
	jmartorell@cells.es		
		ОК	Cancel

Notice (Fig.9): This seems an e-mail, but it is NOT, I repeat, is your institution LOGIN @ your institution internet domain. <u>LOGIN @YOUR-DOMAIN</u>

But it's possible your Windows7 does not like the certificate yet. If you already rebooted the laptop, once the Certificate is installed, there's a way to get rid of this (Fig.10) bothering warning:



As user **with administrator rights** you can install the certificate. Open a command line via "cmd", "cd" to the path where the certificate had been downloaded to, and run:

C:> cd "Users\Me\Desktop" or where do you downloaded the "WiFI-Eduroam-ALBA-CA-up-to-2023.der"

C:\Users\Me\Desktop> certutil -enterprise -addstore NTAuth WiFI-Eduroam-ALBA-CA-up-to-2023.der

Once installed here, you will get rid of the annoying warning.

IF YOU ARE ABROAD, ALREADY INSTALLED THE ALBA-EDUROAM CERTIFICATE, AND THE WARNING RAISE YOU ARE BEING CHEATED. BE CAREFULL. TERMINATE THE CONNECTION. ASK SYSTEMS.