

Faculty of German Engineering Education and Industrial Management



**FDIBA IT Team** 



# **Instructions for connecting to the FDIBA Wireless Network**

(Windows XP)



In order to connect, you need your username and password, as well as the FDIBA Root Certificate which you need to install on your laptop or smartphone.

## 1) Root Certificate Installation

To obtain the certificate, please perform the following steps:





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 Log on to a desktop computer in one of the PC rooms using your username and password and use Windows Explorer to navigate to the location <u>X:\Wireless Network</u>.

Note: You can also download the certificate outside the FDIBA network using the URL: <u>http://fdiba.tu-sofia.bg/downloads/FRC.cer</u>

- **2.** Copy the file **FRC.cer** to a USB Flash disk or a diskette.
- **3.** Transfer the certificate file to your laptop.
- **4.** Double-click on the certificate file. You should see the following window:

📆 Certifica	ate Information	
íhis CA Root co nstall this cert Authorities sto	ertificate is not trusted. To en ificate in the Trusted Root Ce rre.	able trust, rtification
Issued to:	FDIBA Certificate Authority	
Issued by:	: FDIBA Certificate Authority	
	24.7.2007 г. <b>to</b> 24.7.2032 г.	
¥alid from		

Click on Install Certificate...

**5.** In the Certificate Import Wizard click **Next >**.



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Certificate Import Wizard	$\overline{\mathbf{X}}$
	Welcome to the Certificate Import Wizard This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store. A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept. To continue, click Next.
	< Back Next > Cancel

6. Select Automatically select the certificate store based on the type of certificate. Click Next >.

Certificate Import Wizard	
Certificate Store Certificate stores are system areas where certificates are kept.	
Windows can automatically select a certificate store, or you can specify a location fo	ır
• Automatically select the certificate store based on the type of certificate	
Place all certificates in the following store	
Certificate store: Browse	
< <u>Back</u> Mext > Ca	ncel

**7.** Click **Finish** to complete the Certificate Import Wizard.



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Certificate Import Wizard		X
	Completing the ( Wizard	Certificate Import
	You have successfully compl wizard.	eted the Certificate Import
	You have specified the follow	wing settings:
	Certificate Store Selected Content	Automatically determined by t Certificate
	<	
	< <u>B</u> ack	Finish Cancel

**8.** Verify the certificate by comparing the Thumbprint (sha1) value in the **Security Window** with the value shown here. If they match, click **Yes**.



This window completes the certificate import procedure. Refer to next page for Wireless Network Configuration.







- 2) Configuration of the Wireless Network Properties
- **1.** Open **Network Connections,** select your wireless network adapter and choose **View Available Wireless Networks.** The following window



Note: If you do not see any wireless networks, check that you have correctly installed your wireless network adapter drivers, the wireless adapter is enabled and that the service **Wireless Zero Configuration** is running. Click **Refresh network list** to refresh the networks list.

In the **Related Tasks** category, choose **Change advanced settings**.

2. In the **Wireless Network Connection Properties** window, verify that **Use Windows to configure my wireless network settings** is checked. Then choose **Add...** (See next page for screenshot)

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V	FDIBA IT Team	V
🕹 Wireless	s Network Connection 4 Properties	
General	Vireless Networks Advanced	
🔽 Use <u>W</u>	indows to configure my wireless network settings	
Available	e <u>n</u> etworks:	
To conn about w	rect to, disconnect from, or find out more information ireless networks in range, click the button below.	
	View Wireless Networks	
Preferred Automat below:	d networks: tically connect to available networks in the order listed	
	Move <u>up</u>	
	Move <u>d</u> own	
	d <u>Remove</u> Properties	
Learn ab	out setting up wireless network Advanced	

3. Choose the Association tab. In the Network Name (SSID) field type FDIBA Wireless.

Cancel

OK

Note: The SSID field is case-sensitive, so enter it exactly as shown.

Network name (SSID):	FDIBA Wireless	
-Wireless network key		
This network requires a key	for the following:	
Network Authentication:	WPA	~
Data encryption:	TKIP	~
Network <u>k</u> ey:		
Confirm network key:		
Key inde <u>x</u> (advanced):	1	
The key is provided for r	me automatically	

In the **Network Authentication** field, choose **WPA** or **WPA2** (not **WPA-PSK!)** from the drop-down menu.





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In the **Data encryption** field, choose **TKIP** or **AES**. Choose the **Authentication** tab.

4. For **EAP type**, choose **Protected EAP (PEAP)** from the drop-down menu, ensure that **Authenticate as computer when computer information is available** is NOT checked and choose **Properties**.



5. (See next page for screenshot) In the **Protected EAP Properties** window verify that **Validate server certificate** is checked. From the **Trusted Root Certification Authorities** list find and check **FDIBA Certification Authority.** Under **Select Authentication Method** select **Secured password (EAP-MSCHAP v2).** Check the box next to **Enable Fast Reconnect** and click the **Configure...** button.

Note: If you select the **Enable Fast Reconnect** checkbox and the authentication hangs on **Validating Identity** thereafter, deselect the **Enable Fast Reconnect** checkbox and try connecting again. **Fast Reconnect** <u>is not supported</u> on Windows CE .NET.

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Protected EAP Properties
When connecting:
Trusted Root Certification Authorities:
Equifax Secure Global eBusiness CA-1
eSign Imperito Primary Root CA
EUnet International Root CA
FDIBA Certificate Authority
FESTE, Public Notary Certs
FESTE, Verified Certs
📃 First Data Digital Certificates Inc. Certification Authority 🛛 💌
Do not prompt user to authorize new servers or trusted certification authorities.
Select Authentication Method:
Secured password (EAP-MSCHAP v2)
Enable Fast Reconnect
OK Cancel

6. In the EAP MSCHAPv2 Properties window, remove the checkbox near Automatically use my Windows logon name and password (and domain if any). Click OK and close all dialog windows.

EAP MSCHAPv2 Properties	X
When connecting:	_
Automatically use my Windows logon name and password (and domain if any).	
OK Cancel	

The network configuration procedure is complete. Refer to next page for instructions about connecting to the network.



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## 3) Connecting To the Network

1. Choose the FDIBA Wireless network and click Connect.

(9) Wireless Network Connect	on 4 🛛 🗙
Network Tasks	Choose a wireless network
💋 Refresh network list	Click an item in the list below to connect to a wireless network in range or to get more information.
Set up a wireless network for a home or small office	(()) FDIBA Wireless Manual 🛠
Related Tasks	This network requires a network key. If you want to connect to this network, click Connect.
Learn about wireless networking	
Change the order of preferred networks	
Change advanced settings	

2. Wait until a yellow balloon popup message appears in the system tray prompting to select authentication credentials. Click the balloon popup message (do not click the X in the upper right corner!).



3. The following window appears:



Enter your username and password for the network.

### In the Logon domain field, enter FDIBA.

Click **OK** and wait a few seconds. If the authentication was successful, the status of the network adapter should have changed to **Connected**.

If you have any questions or problems connecting to the network, please contact the FDIBA IT Team (10207 – A) or e-mail <u>itteam@fdiba.tu-sofia.bg</u>.