

How to use the Demo application

The Demo application has next features

- network access to scanner in TCP server (Passive mode) and TCP Client (Active mode)
- create, edit and delete the users
- create the templates for user
- identification of users in active and passive mode
- control the EREL access for identification process in active mode if you have EREL (supports the relation between Ethernet Scanner and Ethernet Relay)

1. Installation of hardware

Unpack all devices. Prepare the Ethernet switch in order to support the network. EFIS321 scanner(s) and Ethernet relay EREL118 connect to Ethernet switch. In order to apply the power supply for EFIS321 we use the passive POE adapter. The passive POE adapter has two sides: LAN and POE. The EFIS321 scanner must be connected to POE side. The Ethernet switch must be connected to LAN side. We use for device powering the power adapter 12 or 24 VDC. You must use extra patch cord in order to connect the scanners and Ethernet relays to Ethernet switch. When you apply the power supply, the yellow led of scanner will be glow (in case of using the active mode of EFIS321 scanner)

2. Setup of IP address of computer

Your computer must be connected to Ethernet switch as well. The EFIS321 scanners have the IP address of server in flash memory. The IP address of your computer and IP address of server into configuration flash memory of scanners must be the same. The IP server address of EFIS321 is 192.168.100.13. In order to support the work of scanners in active mode you must setup the IP address of your computer. The IP address must be 192.168.100.13 as well.

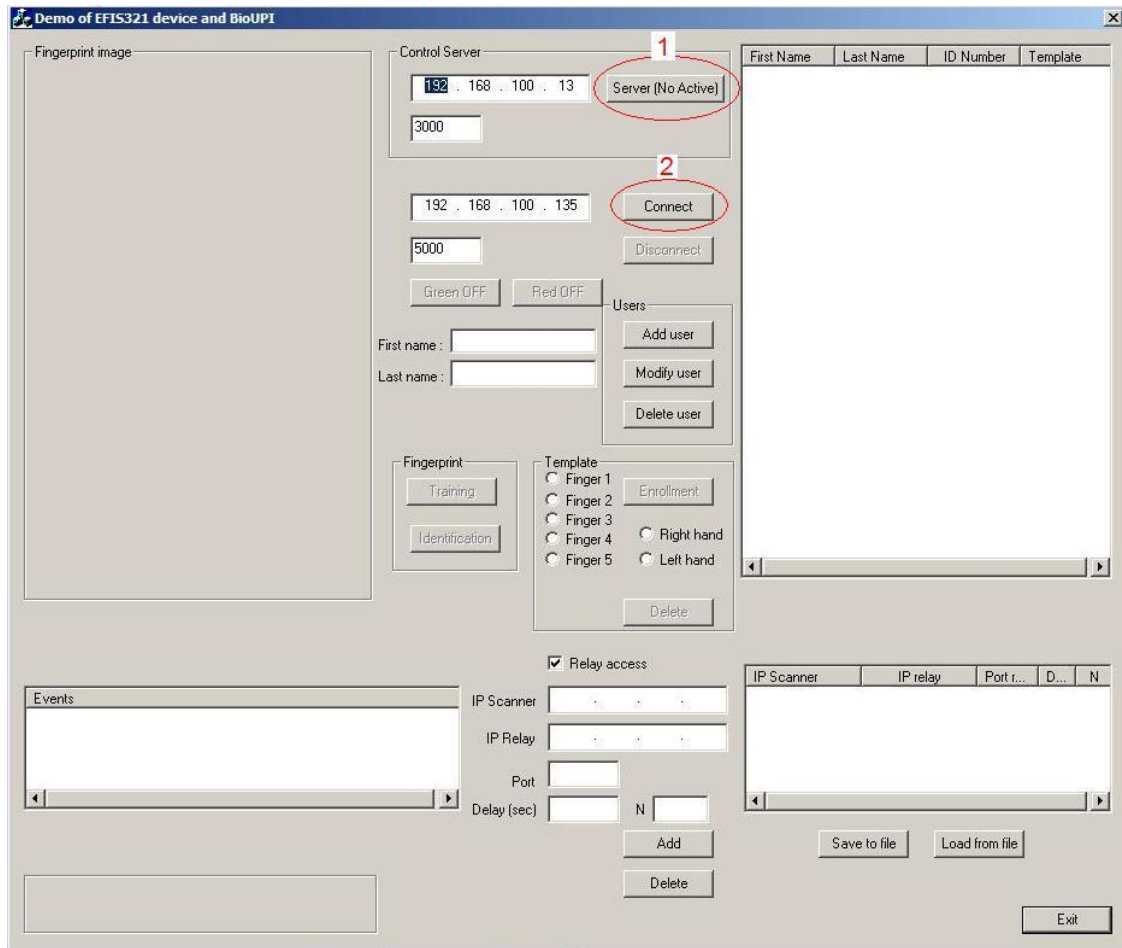
3. Run of Demo application

Run the demo application DemoEfis321BioUPI.exe from USB stick or CD.

The button “Server” setups the TCP server and listen the network (IP address 192.168.100.13 port 3000)

The button “Connect” lets to get a connection to EFIS321 scanner. The scanner supports TCP server as well. It's passive mode. Using this method of access we

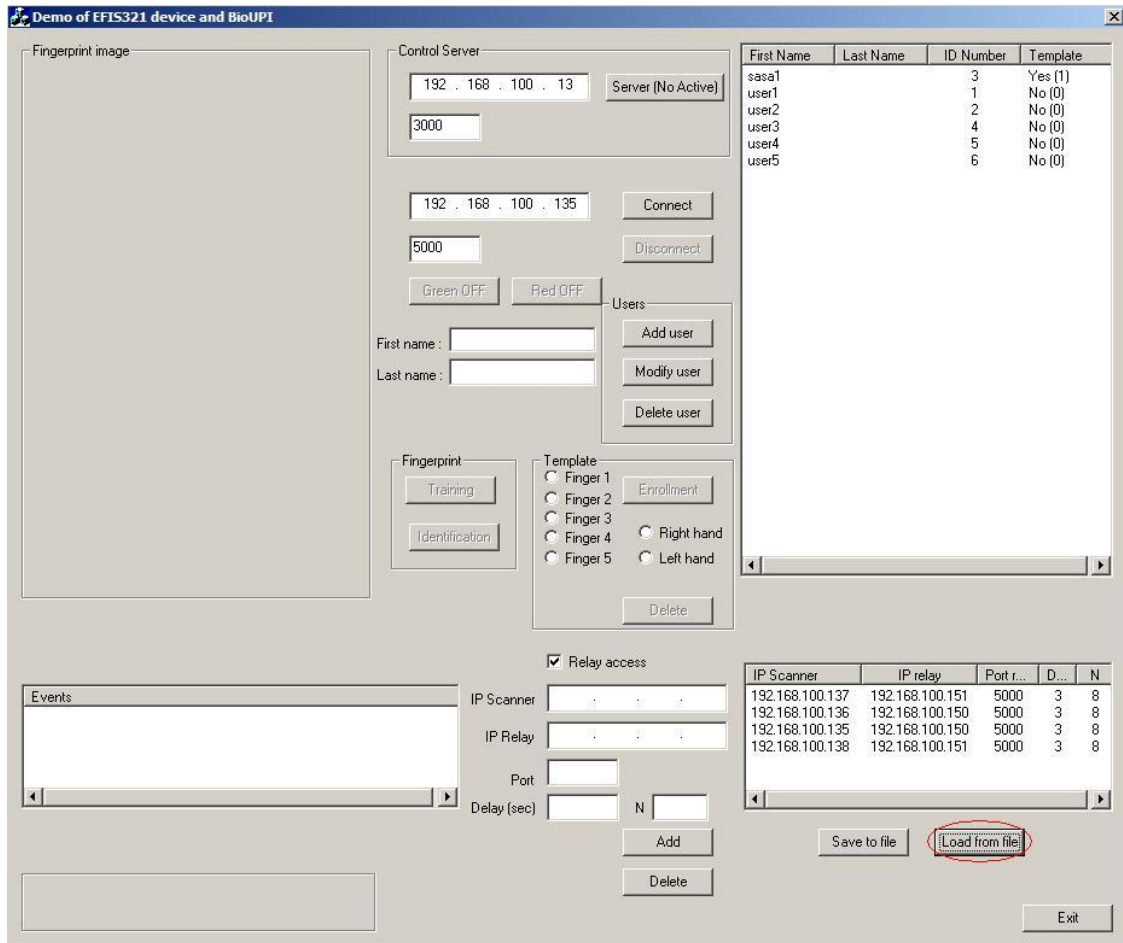
can use the scanner in order to create the templates for user(s) and make the identification from one scanner.



4. Load the template of configuration

We create the template of users and relations between EFIS321 scanners and EREL118 Ethernet relays.

Press the button “Load from file”. You can see the list of users and list of relation between scanners and relays.

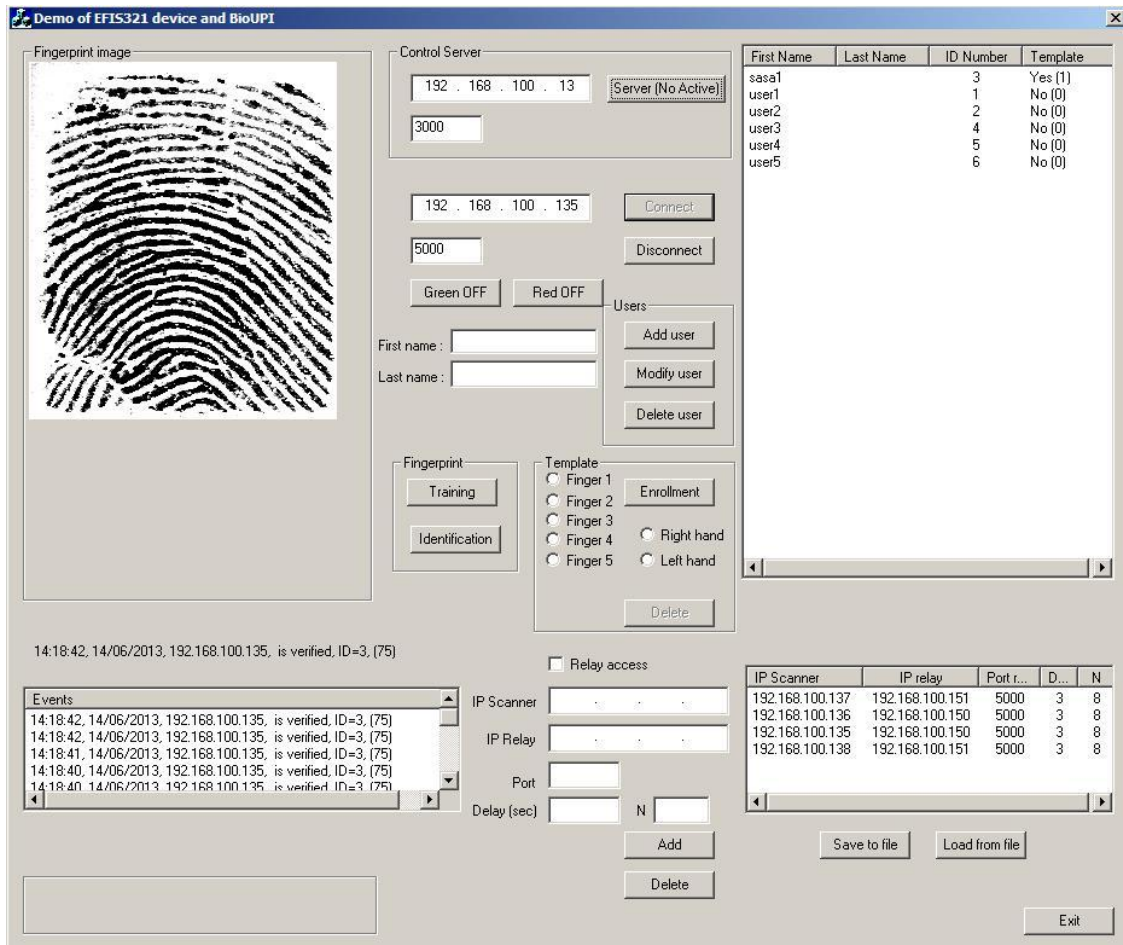


5. Create the users

You can create a new user(s) or edit of exist user.

You must get the connection to EFIS321 scanner in order to create user and fingerprint templates for him. Please, take the scanner with IP address 192.168.100.135 or change the IP address for other scanner. Each scanner has the IP address label from the back side. Press button “Connect” and you must have the message “Connect”. Press “OK”.

If you put the finger on the fingerprint sensor of scanner you can see the fingerprint of finger.

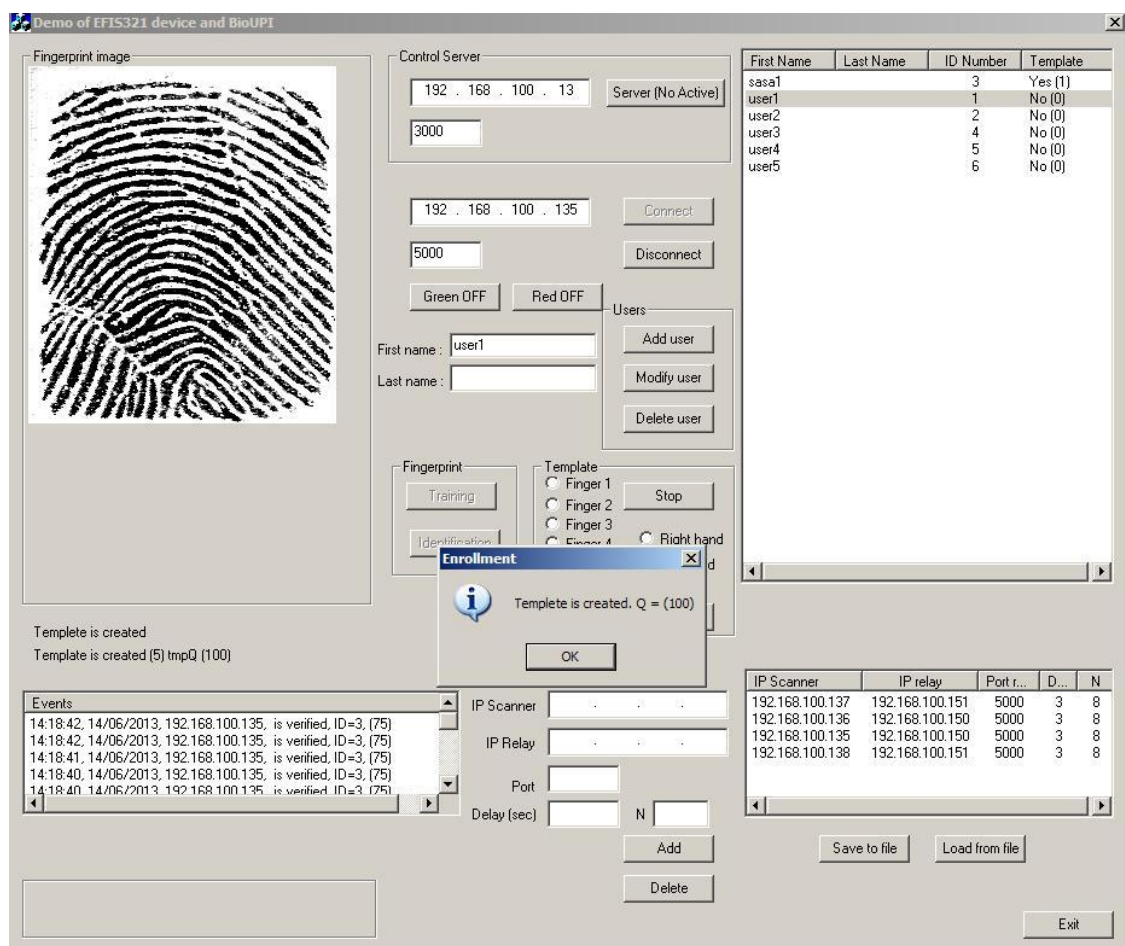


6. Create the templates for user

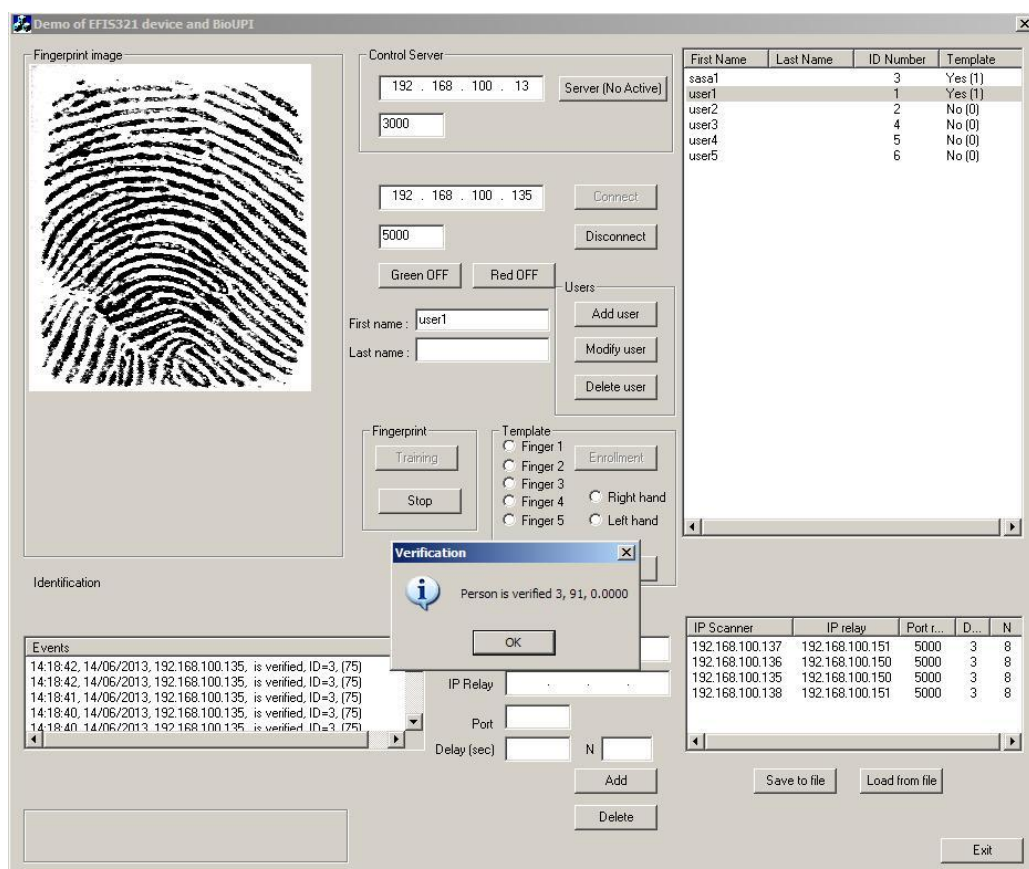
You must create fingerprint templates for user. To do this, select the user and click button “Enrollment”. Put your finger on the sensor and wait for the message “Template is created.” Then press OK.

You can create some templates for each user. In order to do it, you must repeat this operation several times.

If you press button “Save to file”, you can save all users and templates into files on the hard disk.



In order to check the quality of recognition, please, press button “Identification” and put your finger for recognition.



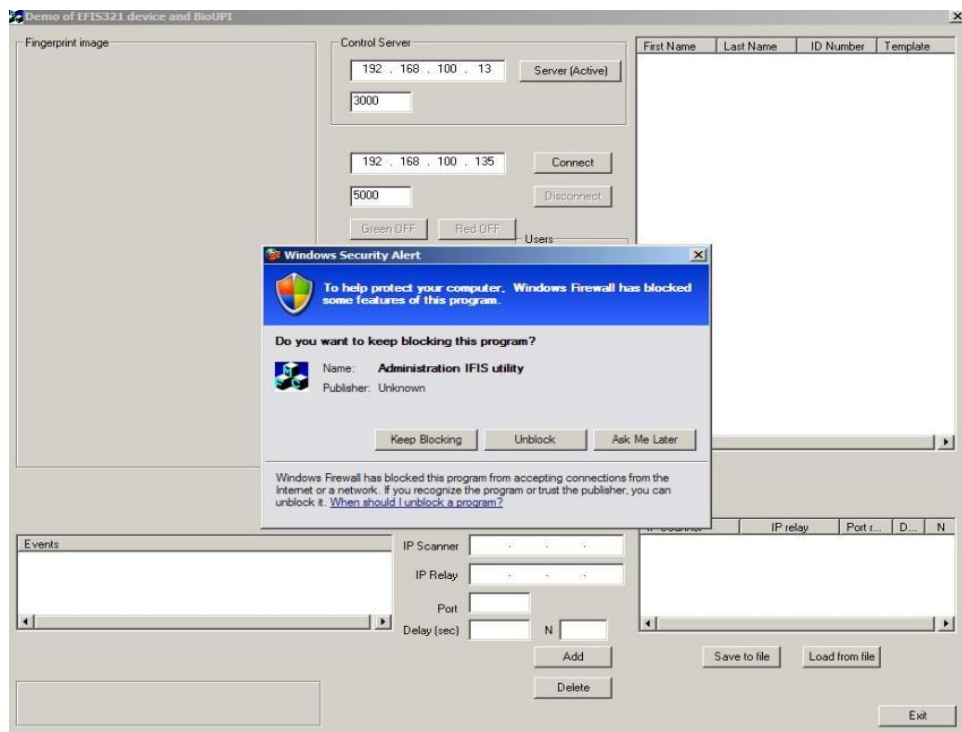
7. Run the TCP Server

When you create the fingerprint templates you can run TCP server and support the active mode for scanners.

Please, press button “Disconnect”

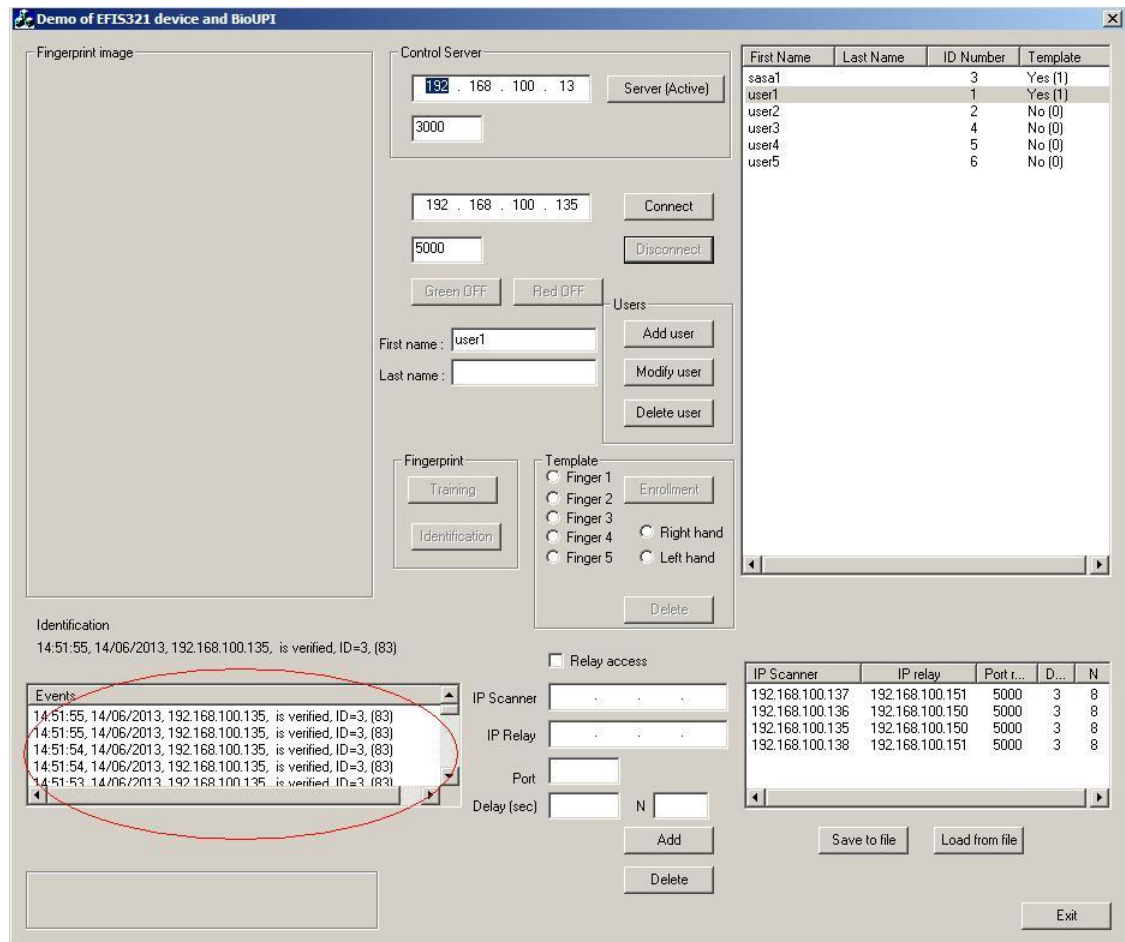
In order to run the TCP server, please, press the button “Server”. (Please remember, the IP address of your computer must be 192.168.100.13 otherwise you will get the error from application)

The Window can provide you the next message



Please, press “Unblock”.

Now you can put the finger on the sensor and scanner tries to get a connection to TCP server and send a fingerprint image for recognition. You can see also the recognition protocol. If you don't want to use the EREL, please, uncheck the "Relay access"



8. Testing process

Created the fingerprint templates for users you can use the active mode (TCP Server) in order to test of scanners possibility and quality of recognition.