

BioManager

Fingerprint Management Software

Description:

Bio manager is a software for fingerprint management of XPR Fingerprint Readers, when used with third party access controllers. The same functions are integral part of XPR's PRO Access Control Software.

Main functions:

- Fingerprint Enrollment

It can be done by ANY Fingerprint reader in the network or by Desktop(USB) Fingerprint Reader.

Note: The Desktop Fingerprint Reader BioE is only compatible to Fingerprint readers with capacitive sensor, not with the ones with thermal sensor.

- Fingerprint Transfer

Finger templates can be sent to any Reader in the Network. Different Users can be sent to different Fingerprint readers.

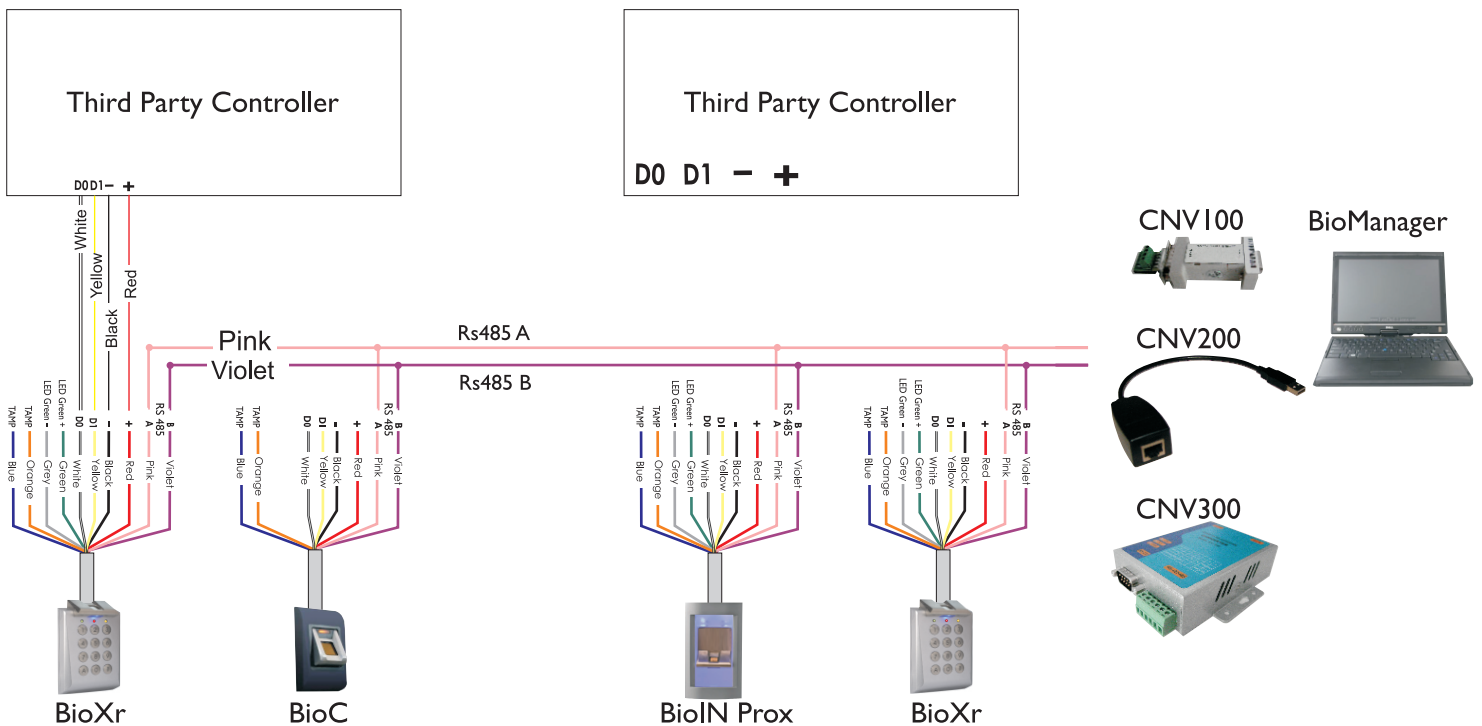
- PIN Codes management and transfer

PIN Code length configuration (1 to 8 digit) and PIN Code transfer.

- Wiegand Output Configuration

The Wiegand output of the Fingerprint reader can be customized bitwise.

The Fingerprint Readers are connected through Rs485 bus. The connection to the PC where the BioManager is installed is made with converter. Please refer to the fingerprint reader's manual for detailed wiring of the fingerprint readers.



Wiring Configuration(applies to all converters)

Converter Types:
 CNV100 - Rs485 to Rs232
 CNV200 - Rs485 to USB
 CNV300 - Rs485 to TCP/IP

BioXr, BioC and BioIN Prox	Converter
RS 485 A (Pink)	PIN 1 (RS 485 +)
RS 485 B (Violet)	PIN 2 (RS 485 -)

1. Fingerprint Enrollment

Following actions are required for fingerprint enrollment:

- First action - The fingerprint readers must be configured: Name, Serial No...
- Second action - Users must be added: Name, User Code...
- Third action - Fingers can be enrolled
- Finally, the enrolled fingers will be sent to the Fingerprint readers

STEP 1

PASSWORD: admin

Adding Portal

1. Right click on the Portal and select “**Add Portal**”(fig1)
2. Add a name of the Portal (usually the Company Name)
3. Select the type of communication, according to the type of connection between the readers and the PC.
If Rs485 to Rs232 Converter(CNV100) is used, select the COM Port where the Fingerprint Readers are connected to.
If Rs485 to USB Converter(CNV200) is used, select the Com Port created during installation of the converter. (Fig.2)
If Rs485 to TCP/IP Converter(CNV300) is used, type the IP address of the converter.(fig.3)
4. Click “Save & Exit”

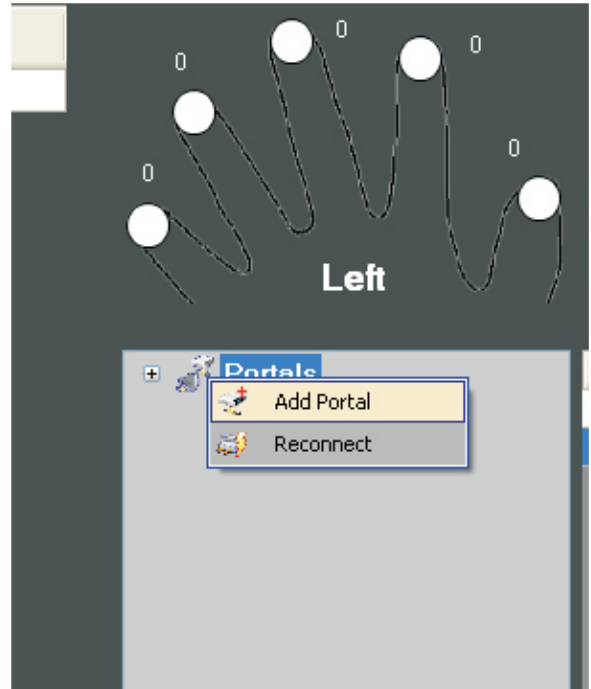


Fig 1

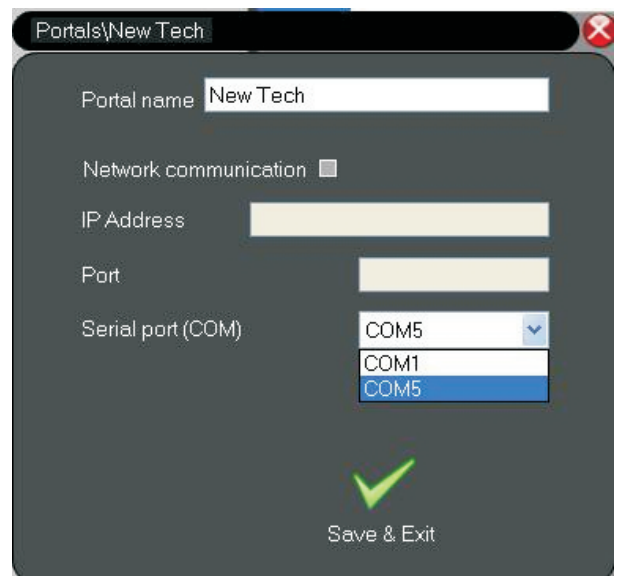


Fig 2

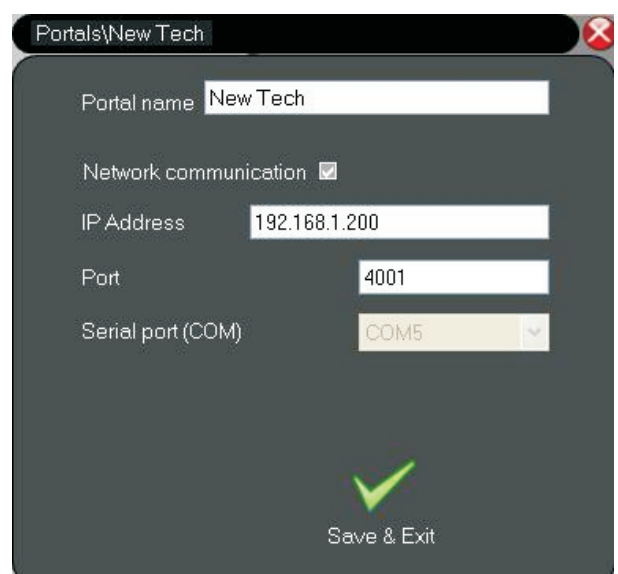


Fig 3

STEP 2

Adding Fingerprint Readers

- 1. Right click on the newly added portal and select **“Add Reader”**.(fig 4)
- 2. In the Reader’s Properties enter a name for the Reader (ex. “Front Door”), enter its **Serial No.(Device ID)** written on the fingerprint reader, select the Wiegand Type, Sound Level and Entry Mode.
For Fingerprint Readers with keypad (like BioXr) insert checkmark in the checkbox “Keypad present”. Fingerprint Readers with keypad can have 3 different entry modes: Only Finger, Finger and PIN Code and Finger or PIN Code.(fig 5)
- For Fingerprint Readers without keypad (like: BioIN Prox and BioC) uncheck.

- The last 4 lines in the window are configurable actions:
 - What Wiegand Code is to be sent when the finger is unrecognized or what Wiegand Code is to be sent when button “A” is pressed etc....
 - 3. Save & Exit
 - 4. Configure all the readers that are installed in the same way.
 - 5. To see if all the readers are configured correctly, right click on the reader and select **“check if on line”** (**“version info”**)(Fig 6).
- In the event window a response will appear either “Device On Line” or “No Response”.
If you get “ No Response”, check the Serial No. of the fingerprint readers (right click/Properties) or the communication of the Portal (Com Port or the IP Address)

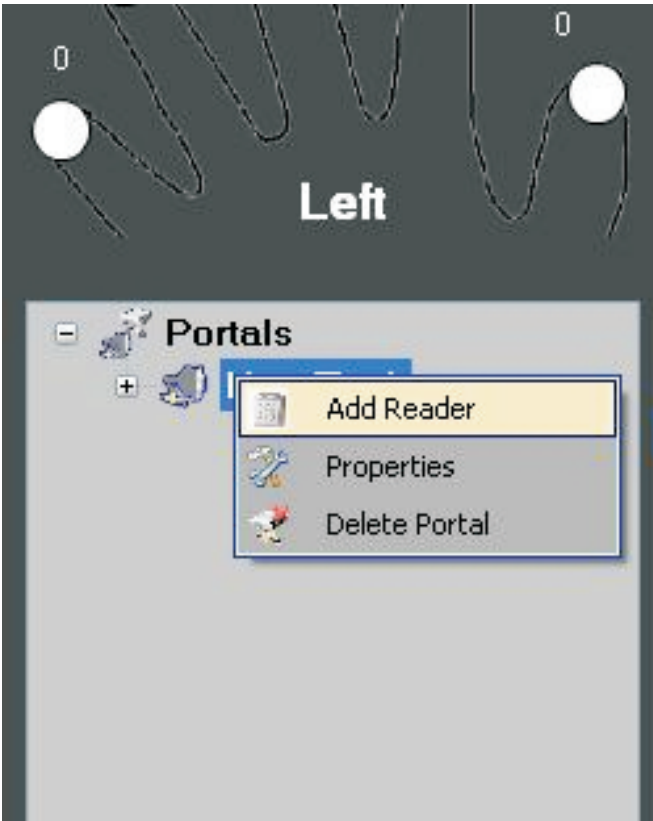


Fig 4

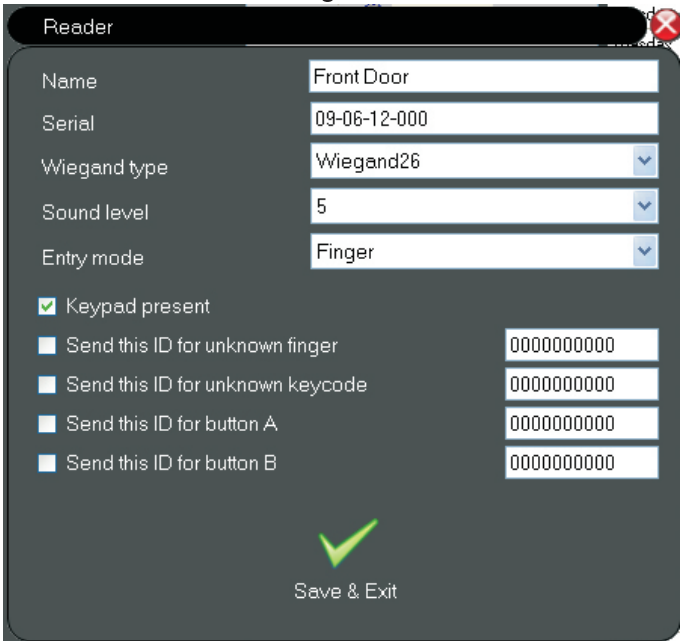


Fig 5

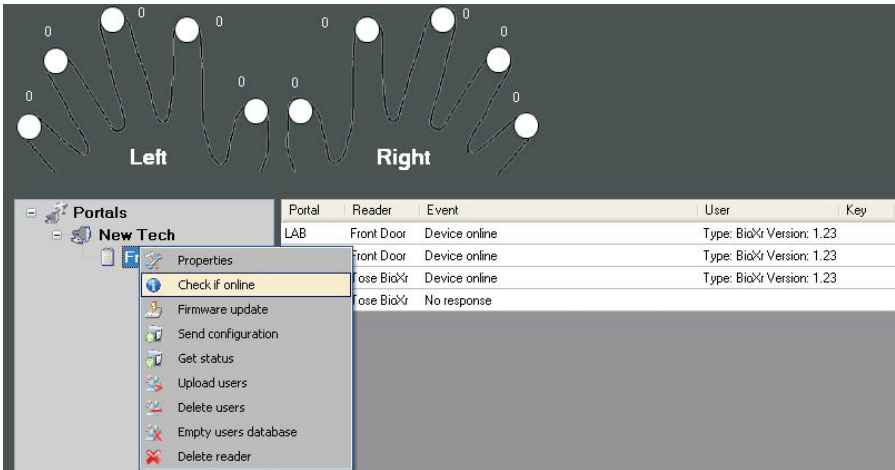


Fig 6

STEP 3

Adding Users

- 1. In the Table on the left, select the field in the column “**User**” where the Name is to be entered, as shown in fig 7, type the Name and press Enter.
- 2. Go to the “ID(User Code)” column and type the Wiegand Code for the User. Press “Enter”.
- 3. If the Fingerprint Reader has a keypad (BioXr), then you can also add PIN Code for that User.

Note: The PIN Code will send the same Wiegand Code to the Controller.

After adding 5 Users the user table should be like the one in fig 8.

Settings Help			
#	User	ID (user code)	PIN code
☐	Enter new user name	0	0

Fig 7

Settings Help			
#	User	ID (user code)	PIN code
☒	Michael Green	11111	12345
☒	John Smith	22222	12346
☒	Robert Palmer	18035555	12347
☒	Danira Nakic	0007466557	12348
☒	Ivo Nakic	0089235543	12349
☐	Enter new user name	0	0

Fig 8

STEP 4

Enrolling Fingers

- 1. Select the User in the User Column, NOT the Check Box (the Check Box is used for sending the fingerprints) and the User Name cell will turn blue.(fig 9)
- 2. Select the Fingerprint reader from where the enrollment will be done (fig 10)
- 3. Right click on the fingertip and select “Enroll”.(fig 11)
- 4. In the next 15 sec. present the finger on the reader (the one that is selected) and the finger tip will turn blue, with percentage of successful enrollment shown next to the fingertip.(Fig 12)
- 5. The same should be done with the rest of the Users.

Note: If more fingerprints are added for one user, all the fingers will send the same Wiegand Code to the controller.

Settings Help			
#	User	ID (user code)	PIN code
☐	Michael Green	11111	12345
☐	John Smith	22222	12346
☐	Robert Palmer	18035555	12347
☐	Danira Nakic	0007466557	12348
☐	Ivo Nakic	0089235543	12349
☐	Enter new user name	0	0

Fig 9

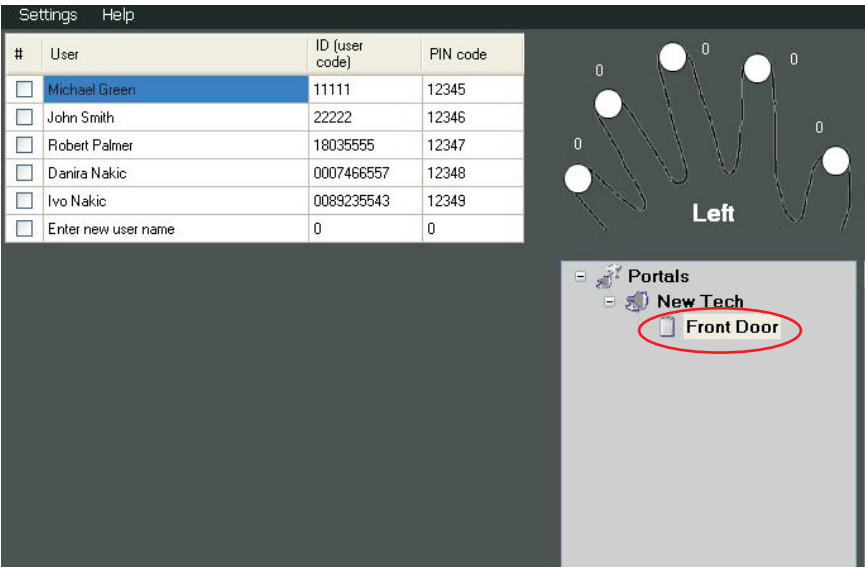


Fig 10

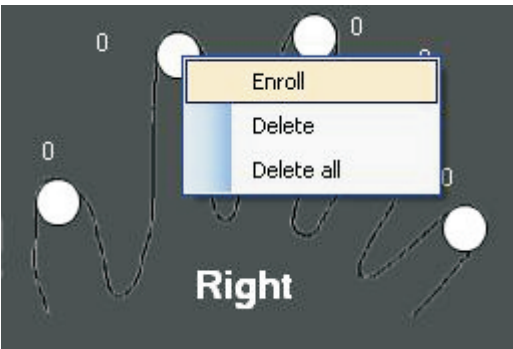


Fig 11

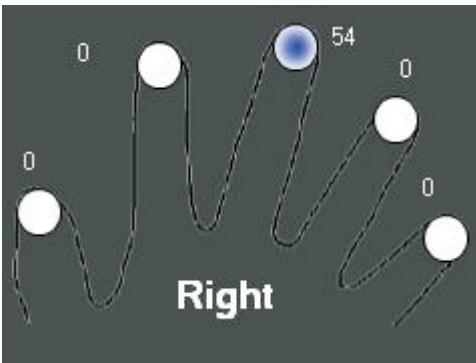


Fig 12

STEP 5

Sending the fingerprints to the Fingerprint readers

- 1. Select the Users, which will be sent to the reader, by clicking the checkbox of the user (fig 13)
 - 2. Select the Fingerprint Reader where the Users should be sent, right click on that Fingerprint Reader and select “**Upload Users**” (fig 14)
 - 3. As each user is being sent, the checkbox will uncheck indicating that the user has been successfully sent. In the same time the Amber LED of the Fingerprint Reader blinks. (fig 15)
- Note: Average time for transferring one finger template is 0,8 sec.*
- Note: The PIN Codes are also being sent, if there are any.*

Settings Help			
#	User	ID (user code)	PIN code
☒	Michael Green	11111	12345
☒	John Smith	22222	12346
☒	Robert Palmer	18035555	12347
☒	Danira Nakic	0007466557	12348
☒	Ivo Nakic	0089235543	12349
☐	Enter new user name	0	0

Fig 13

Settings Help

#	User	ID (user code)	PIN code
☒	Michael Green	11111	12345
☒	John Smith	22222	12346
☒	Robert Palmer	18035555	12347
☒	Danira Nakic	0007466557	12348
☒	Ivo Nakic	0089235543	12349
☐	Enter new user name	0	0

Left Right

Portals

New Tech

Front Panel

Properties

Check if online

Firmware update

Send configuration

Get status

Upload users

Delete users

Empty users database

Delete reader

Fig 14

Settings Help			
#	User	ID (user code)	PIN code
☐	Michael Green	11111	12345
☐	John Smith	22222	12346
☐	Robert Palmer	18035555	12347
☒	Danira Nakic	0007466557	12348
☒	Ivo Nakic	0089235543	12349
☐	Enter new user name	0	0

Fig 15

2. Deleting Fingerprints

In General, after transferring, the fingerprints are stored in the Fingerprint Reader and in the Software.

Deleting can be done only in the software, only in the readers or from the both places.

Deleting one user from the fingerprint Reader

1. Select the user's checkbox.
2. Right click on the Reader and select "Delete User". The user is deleted from the reader, but the fingerprints remain in the software's database. They can be sent once again without the need of re-enrollment.

Deleting all users from the fingerprint Reader

1. Right click on the Reader and select "Delete All".

Deleting one user from the Software

1. Select the User.
2. Go to one fingertip, right click and select "Delete" for one finger or "Delete All" for all the fingers of the User. With this action the User's fingerprints are deleted from the software, but they are still present in the reader.

3. Adjusting PIN Code Length

1. Go to "Settings/System Parameters" and select the desired length for the PIN Codes (1 to 8 digits)
2. Right click on the reader and select "Upload configuration". You will get confirmation in the event window.

4. Adjusting Sound Level

1. Right click on the reader and select "Properties". Select the Sound Level (0 - no sound)
2. Right click on the reader and select "Upload configuration". You will get confirmation in the event window.

5. Adjusting the Wiegand Format

1. Go to "Settings/Wiegand" and adjust the Wiegand Format according to your needs.
2. Right click on the Reader and select "Properties". Select the Wiegand that you have customized.
3. Save&Exit
4. Right click on the reader and select "Upload configuration". You will get confirmation in the event window.

6. Enrollment from a desktop Reader

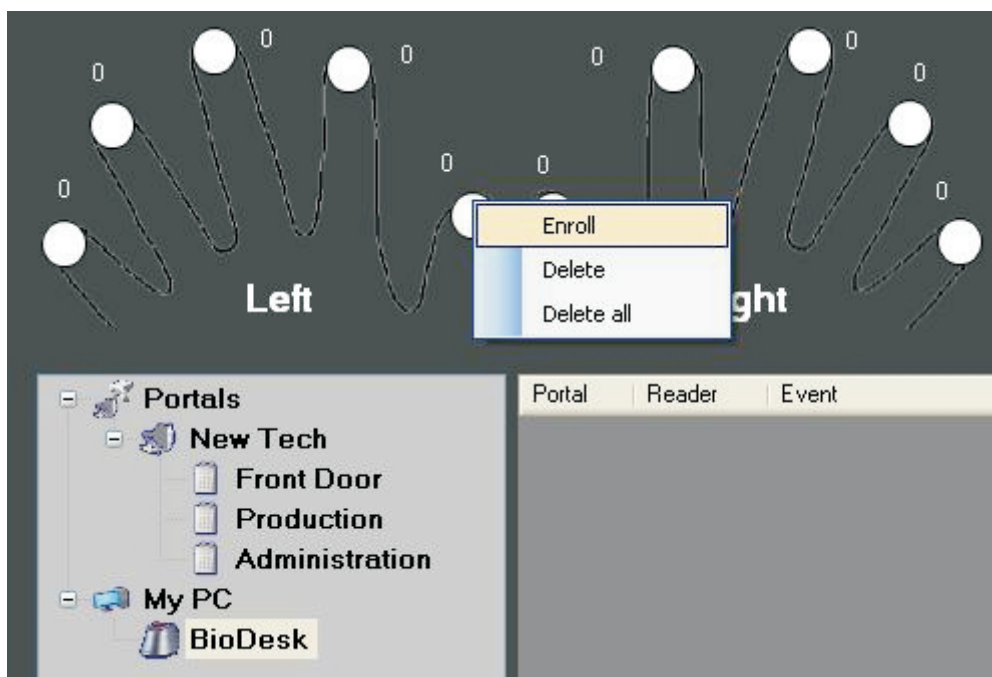
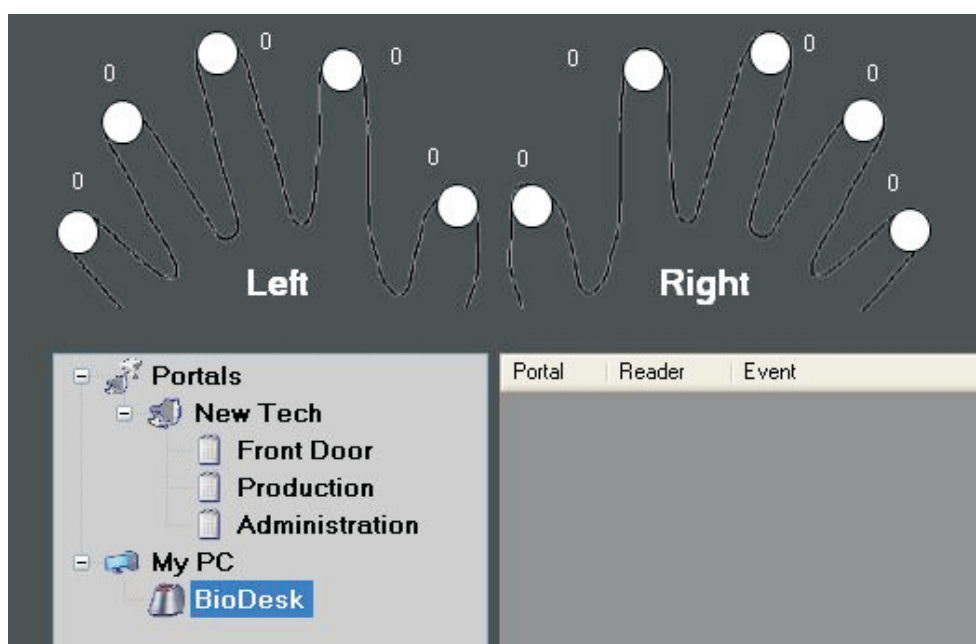


Desktop reader
BioE

IMPORTANT: The Desktop Reader can be used only in combination with the Fingerprint Readers with capacitive sensor. It is not compatible with the readers with thermal sensor (swiping).

Install the Desktop Reader (BioE) using the drivers located on the CD that is provided with the Fingerprint Reader. It is being installed in the same way as USB Device. When the desktop reader is installed it will automatically appear in the Software. (Fig 16)

The enrollment is same as previously described: first the reader must be selected from where the enrollment will be done. In this case, we select the Desktop reader, then we go to the user...



7. Trouble shooting

IMPORTANT: If the BioManager fails to start, please go to Task Manager (Ctrl+Alt+Delete) on the Processes Tab and see if BioManager.exe is among the processes running. If so, select and “End Process”.

8. Firmware Update

Right click on the reader, click “Firmware Update”, locate the firmware with “Browse” and click “Upload”.

Wait until the firmware is uploaded successfully.

