

Setting up Viridi integration with Paxton Net2 Server

Overview

Integrating Viridi biometric readers with the Paxton Net2 system is made possible by using UNIS4 and QManager (the software required can be downloaded [here](#)).



The installation and configuration steps to follow is:

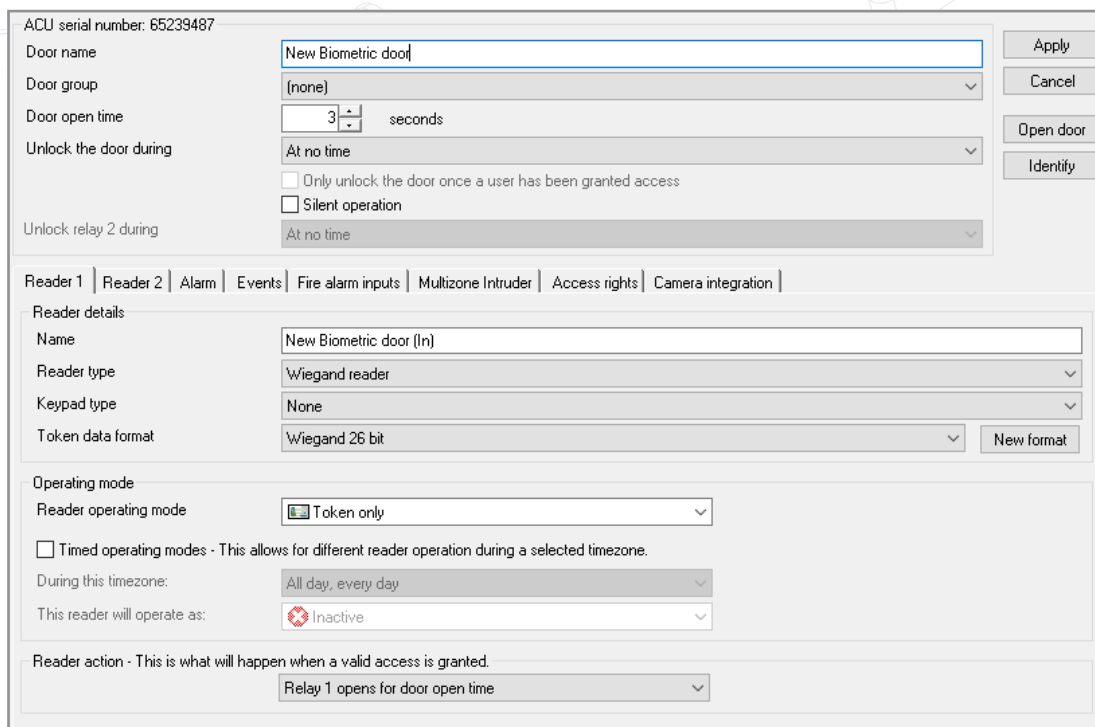
- 1) Install Net2 (view application notes [here](#))
- 2) Install UNIS4
- 3) Install QManager

Versions of software used in this documentation:

Net2 – 5.04.6918.5578
 UNIS4 – 4.2.7.18
 QManager – 1.3.1.3

Install Net2 and configure the door controller for Wiegand use

- 1) Reader type -> Wiegand reader
- 2) Token data format – Wiegand 26 bit
- 3) Reader operating mode -> Token Only



ACU serial number: 65239487

Door name:

Door group:

Door open time: seconds

Unlock the door during:

Only unlock the door once a user has been granted access

Silent operation

Unlock relay 2 during:

Reader 1 | Reader 2 | Alarm | Events | Fire alarm inputs | Multizone Intruder | Access rights | Camera integration

Reader details

Name:

Reader type:

Keypad type:

Token data format:

Operating mode

Reader operating mode:

Timed operating modes - This allows for different reader operation during a selected timezone.

During this timezone:

This reader will operate as:

Reader action - This is what will happen when a valid access is granted.

Figure 1 - configure a Net2 Plus controller for Wiegand readers

Installing and setting up UNIS4

- Install UNIS4 (please refer to the Paxton Integrations page for the latest available versions).
- When using UNIS for the first time create a new password

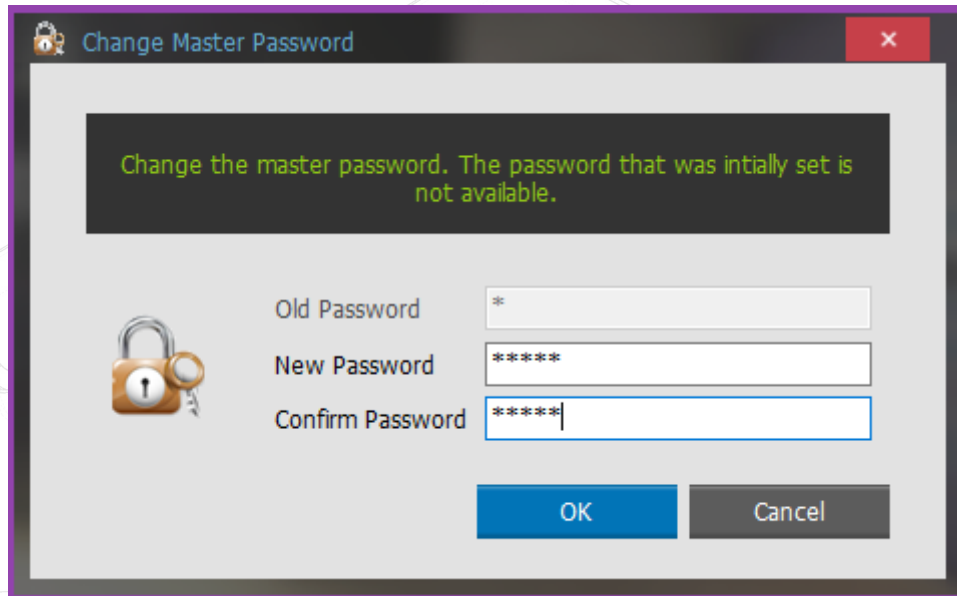


Figure 2 - Create new password for UNIS

- Login to UNIS by selecting Master and entering the new password

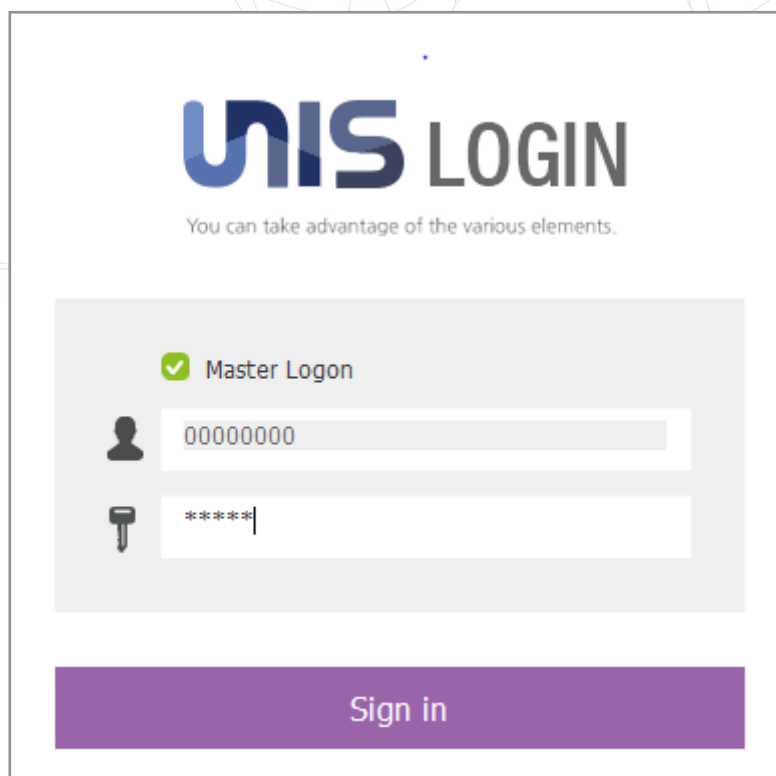
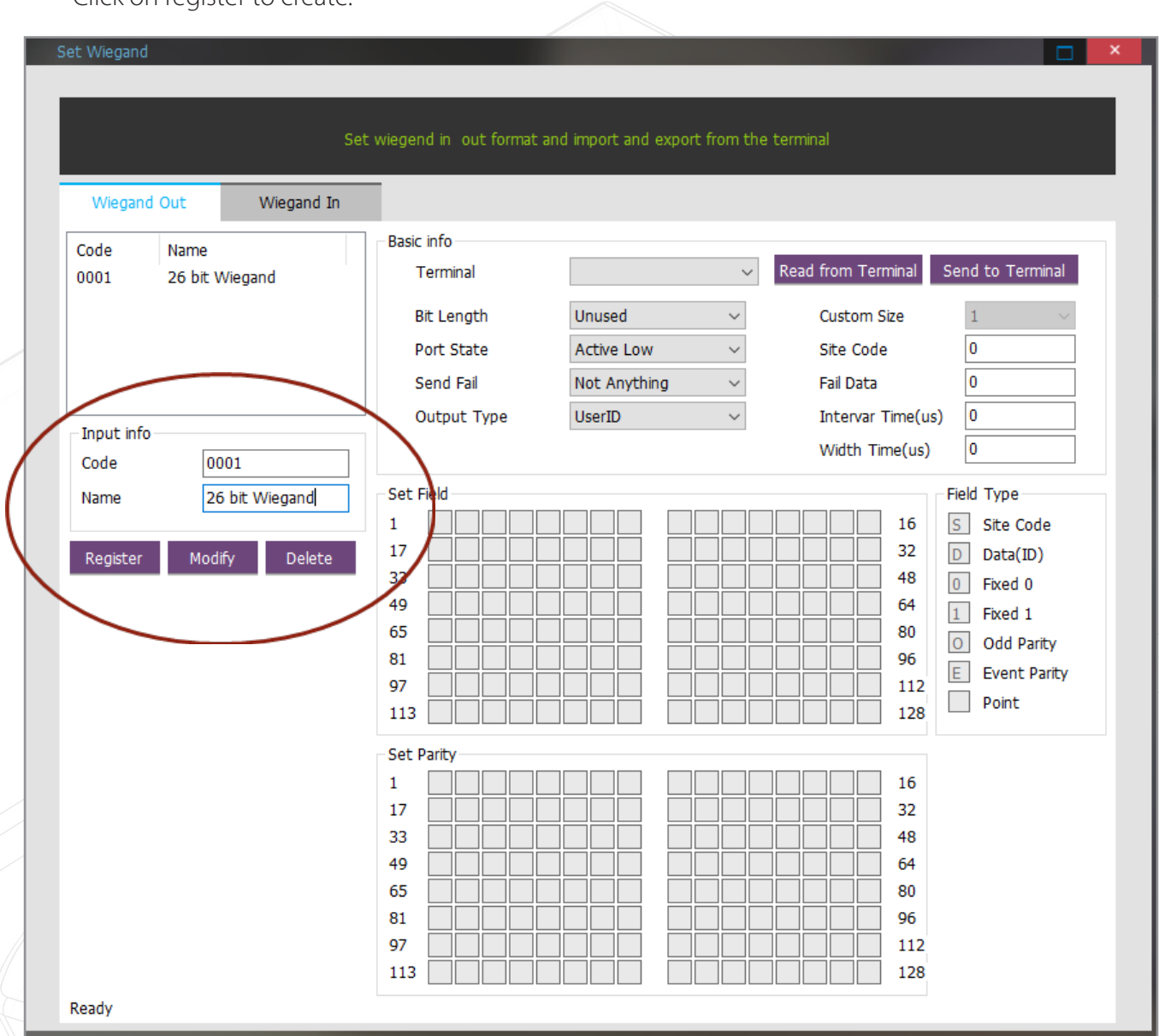
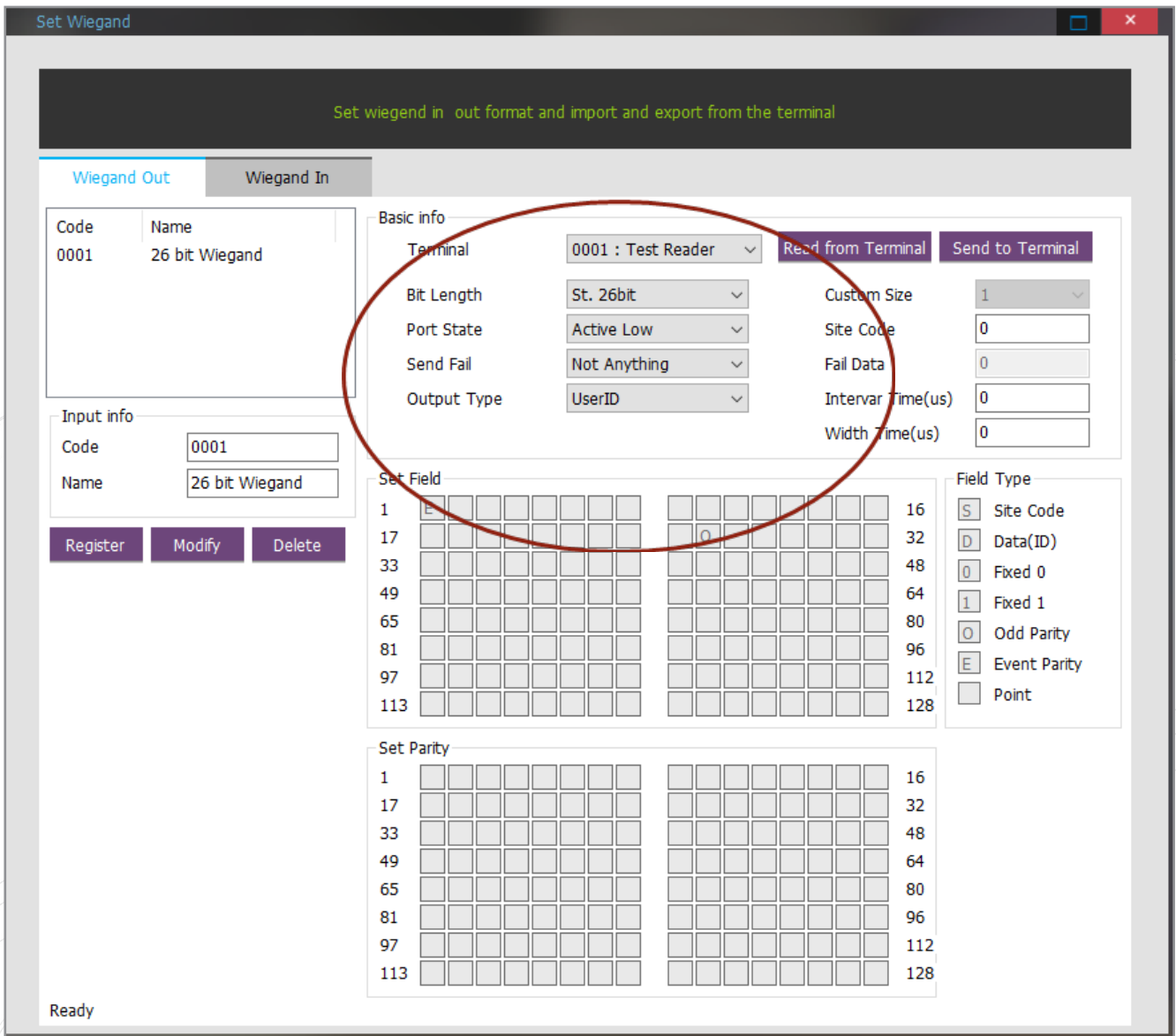


Figure 3 - Login as Master

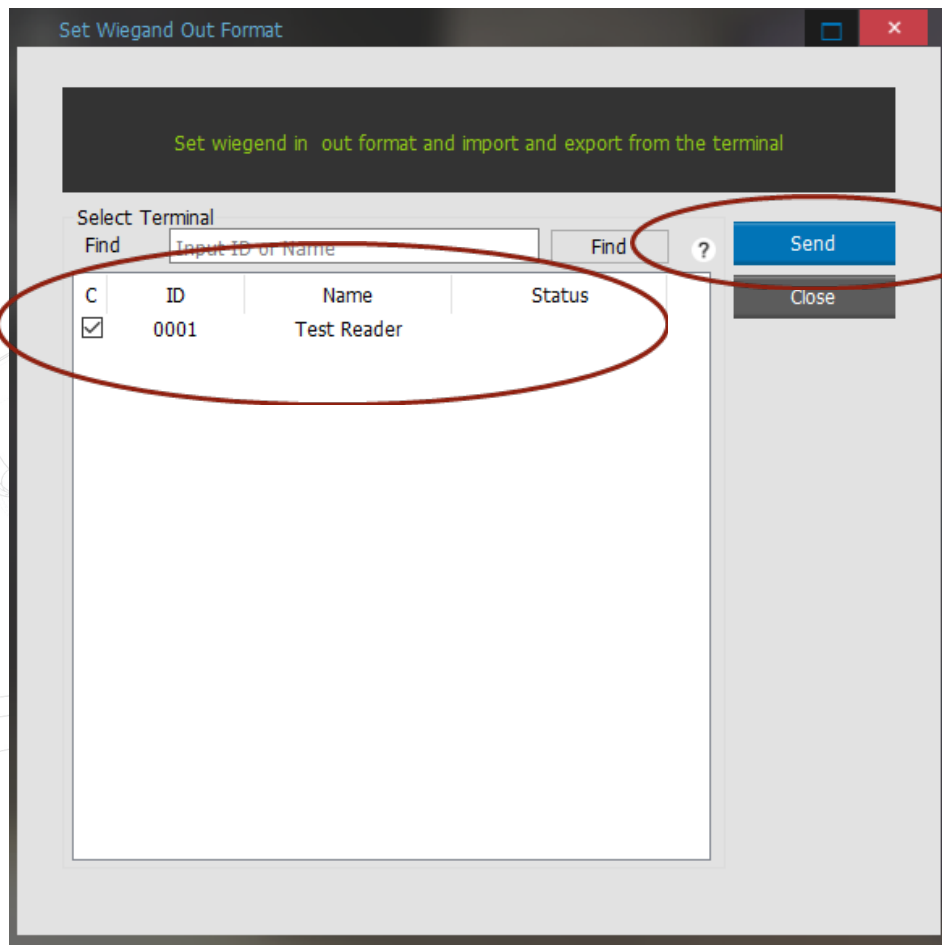
- Under the Main Menu tab, select Settings (menu is hidden away on the right side of the screen. Move the mouse cursor to the right border of the UNIS screen to view the menu).
- Select -> Wiegand Format Setting
- In the Wiegand Format Setting, in the Input info section, create a 26-bit Wiegand format.
- Click on register to create.



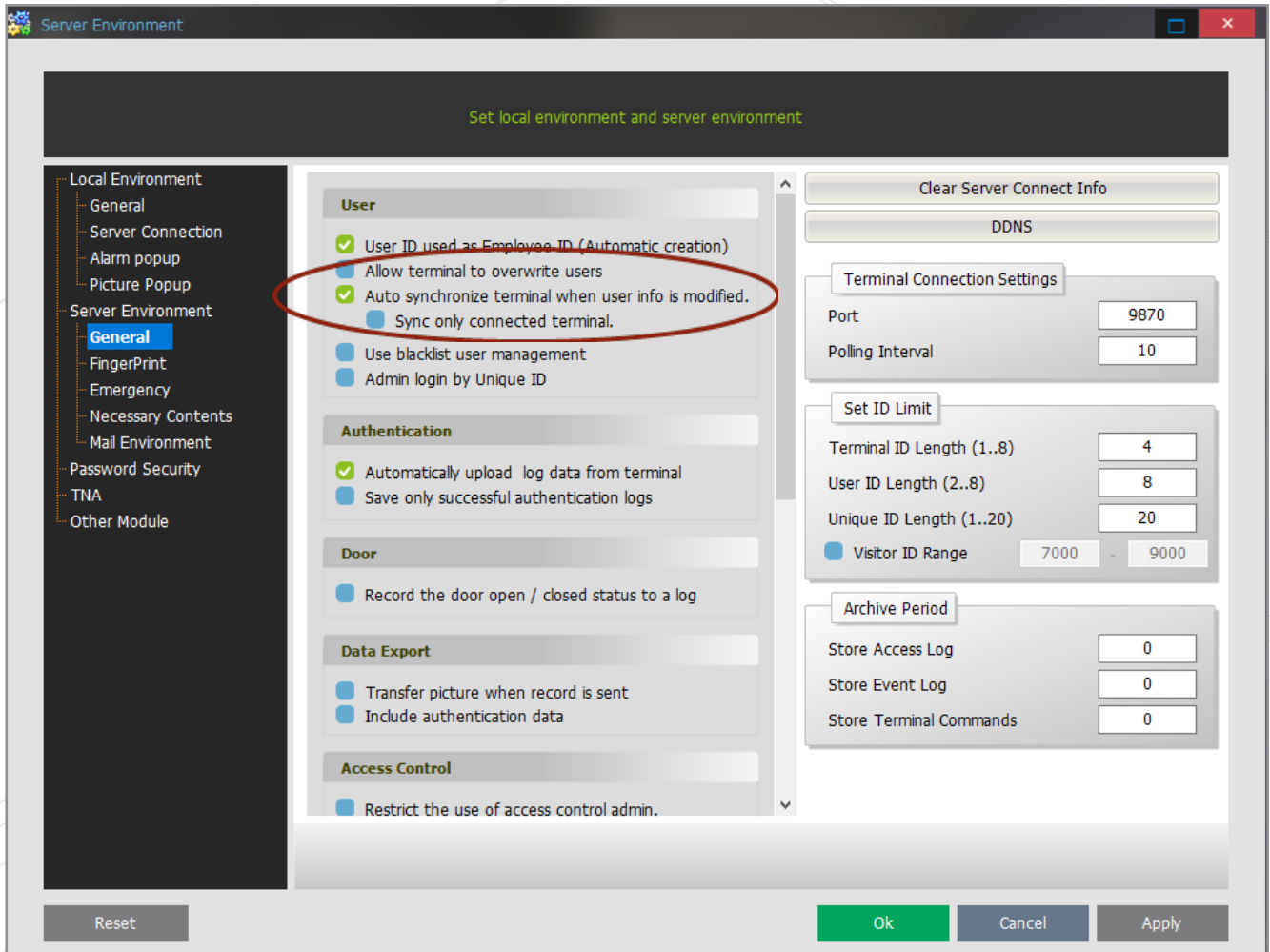
- To send the Wiegand settings to the Viridi readers, select a Terminal and Bit Length and click on Send to Terminal



- Select all the readers and click on Send

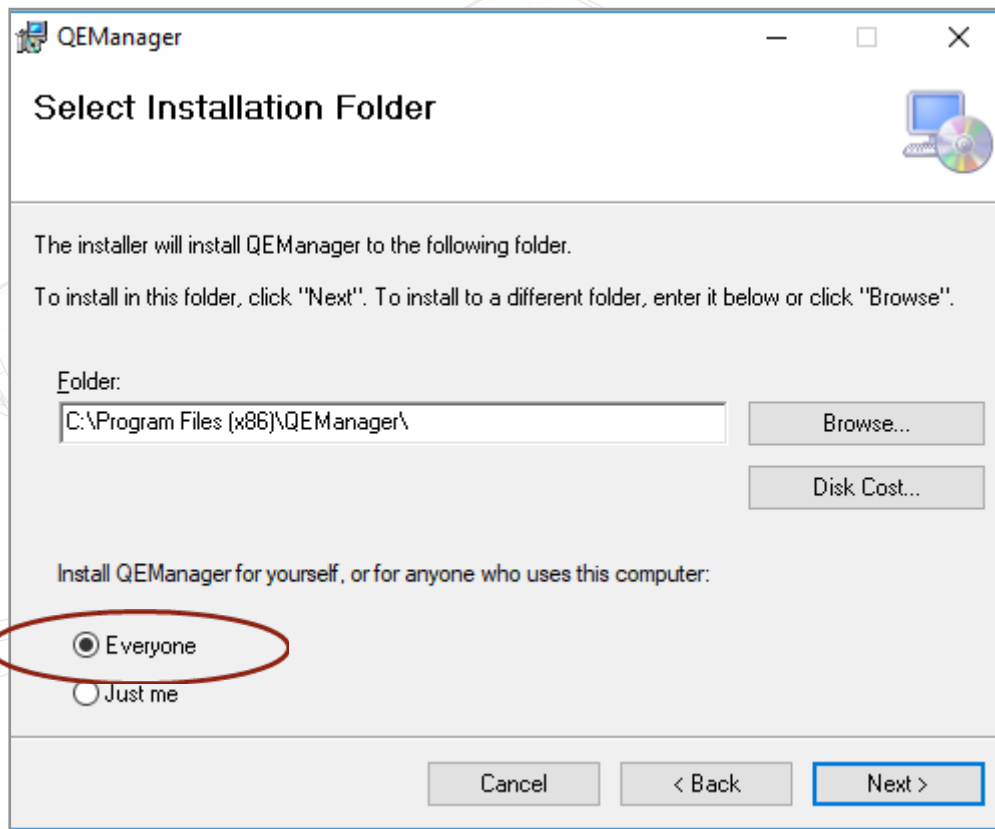


- To setup real-time synchronizing of users, Go to Environment Settings (menu is hidden away on the right side of the screen. Move the mouse cursor to the right border of the UNIS screen to view the menu).
- Under Environment -> General -> Users - ensure the option to "Auto synchronize terminal when user info is modified" is selected. Click Apply.

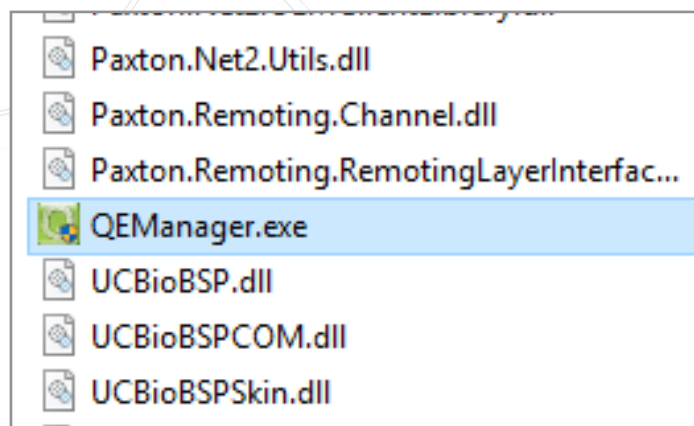


Installing and setting up QEManager

- When installing QEManager select install for Everyone



- Go to C:\Program Files (x86)\QEManager, right click on QEManager.exe and send to your desktop (create a shortcut)



- To run QEManager, right click the shortcut on the desktop and select Run as Administrator
- Enter the password for Net2:

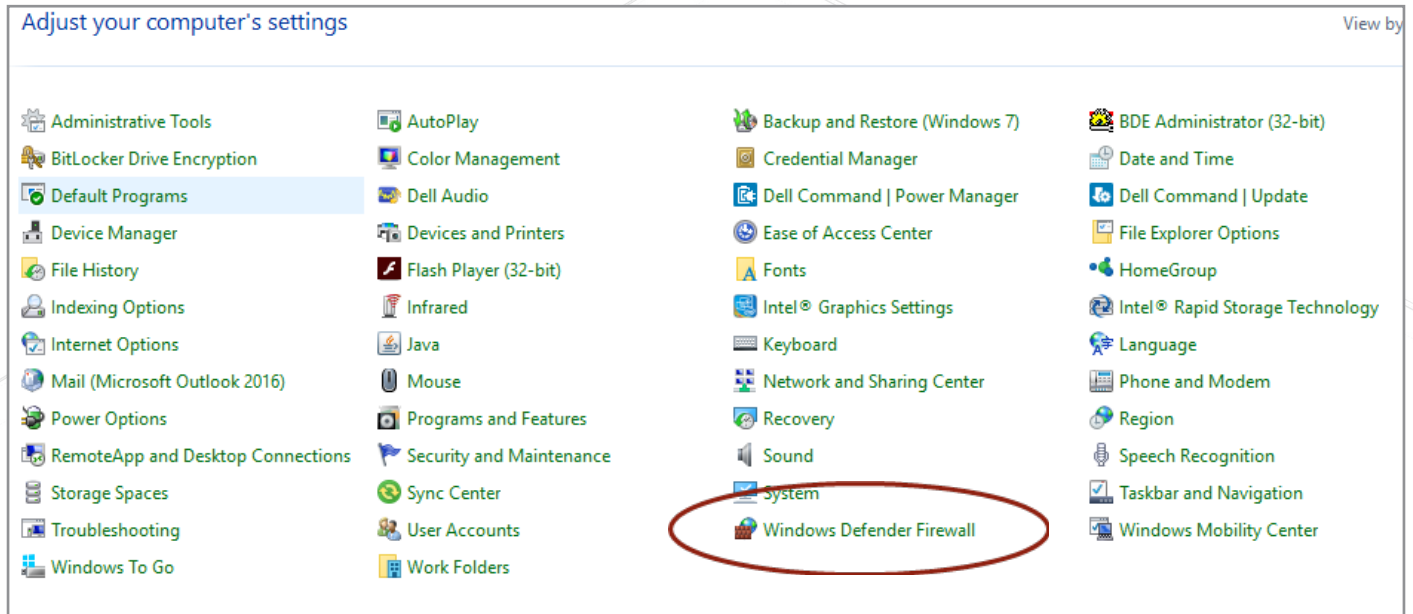
- To view if the connection has succeeded, double click on the QEManager icon in the taskbar (hidden)

Type	DateTime	UID	Message
Info	2018-07-09 12:31:...	0	Connect Paxton Net2..OK
Info	2018-07-09 12:31:...	0	Load General Database..OK
Info	2018-07-09 12:31:...	0	Load General Database..
Info	2018-07-09 12:31:...	0	Init FP Info..
Info	2018-07-09 12:31:...	0	Load System Database..OK
Info	2018-07-09 12:31:...	0	Load System Database..
Info	2018-07-09 12:31:...	0	Connect Auth Server..OK
Info	2018-07-09 12:31:...	0	Connect Auth Server..
Info	2018-07-09 12:31:...	0	Connect UDB Server..OK
Info	2018-07-09 12:31:...	0	Connect UDB Server..
Info	2018-07-09 12:31:...	0	Load MuliLanguage..
Info	2018-07-09 12:31:...	0	Load Local Config..
Info	2018-07-09 12:31:...	0	Create directory
Info	2018-07-09 12:31:...	0	Load System Config..
Info	2018-07-09 12:31:...	0	Start!

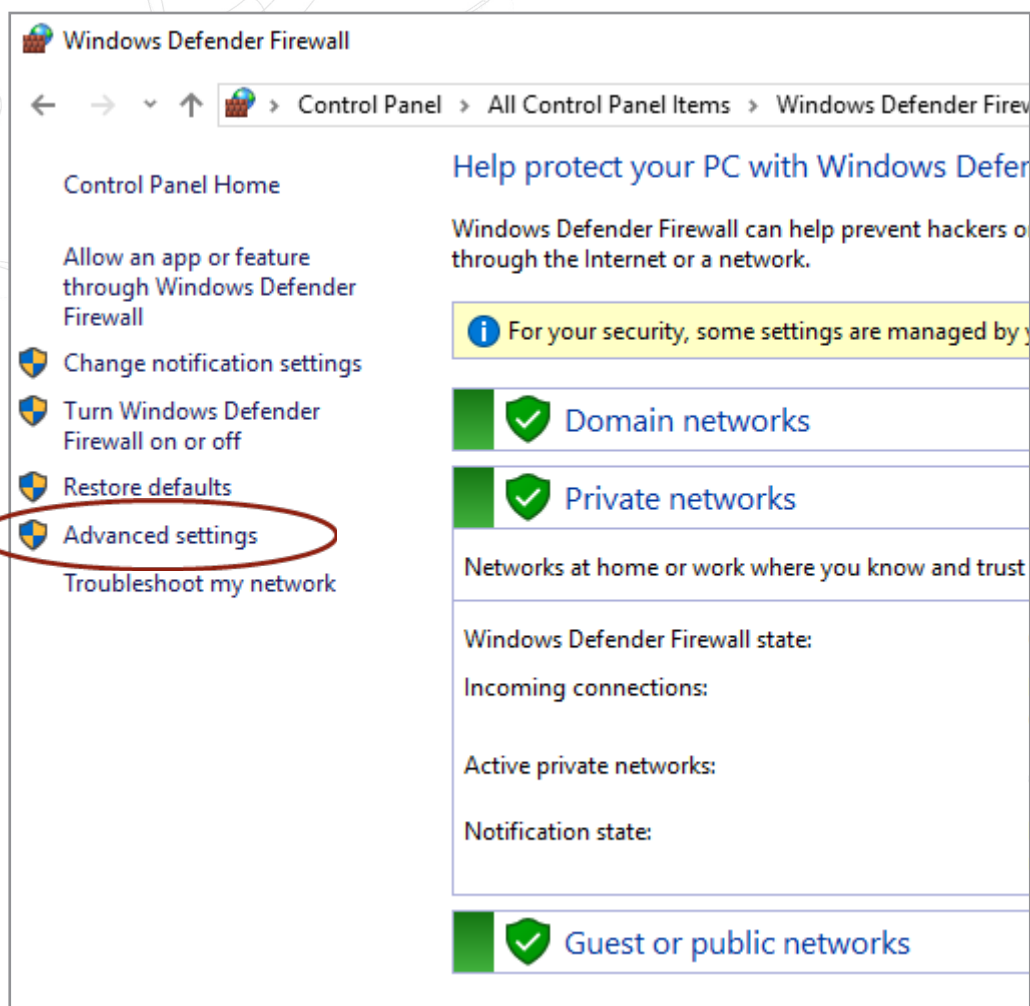
PAXTON v1.3.1.3 Clear

Opening ports in the Firewall

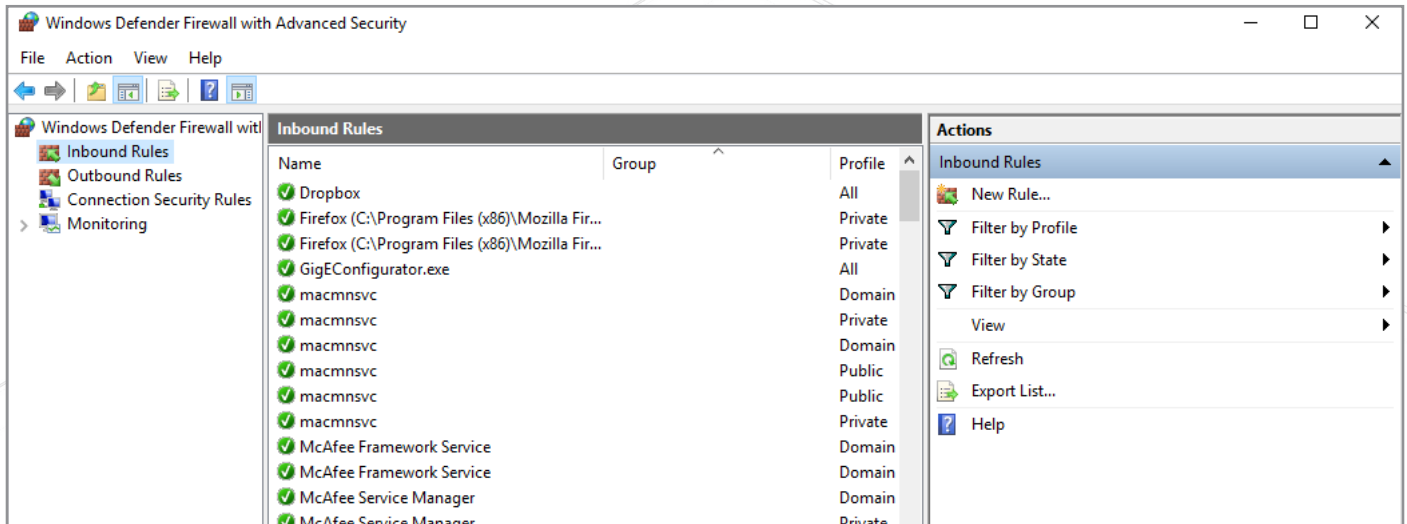
- Ports 9870, 9871, 9872, 9873, 9874, 9875 needs to be allowed for incoming and outgoing
- Go to Control Panel and click on Windows Defender Firewall



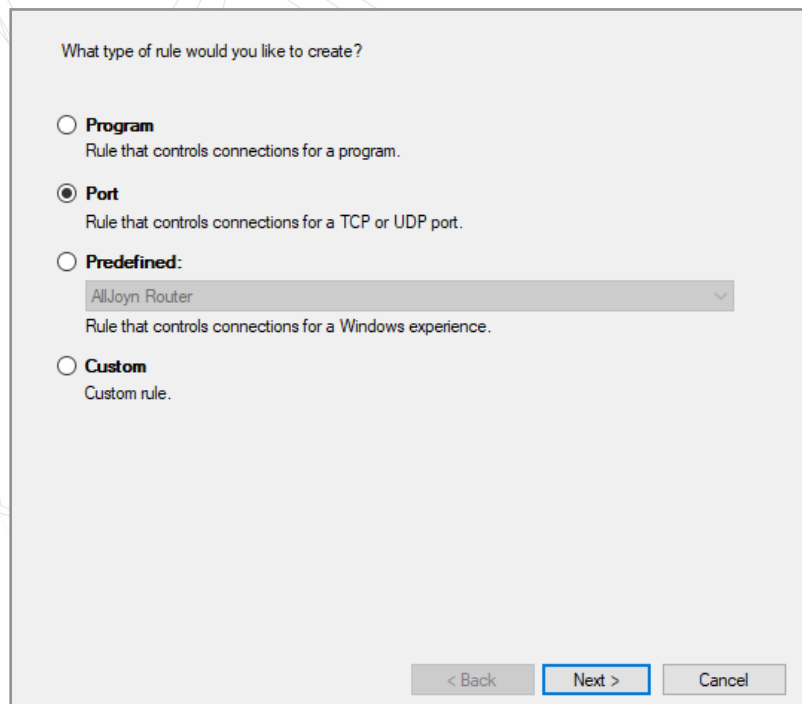
- Click on Advanced settings



- Now we are going to create 2 Firewall rules for UNIS: Inbound and Outbound
- Inbound rule: Click on Inbound rule and then click on New Rule



- Select Port:



- Enter the ports to be allowed: 9870 -9875

Does this rule apply to TCP or UDP?

TCP
 UDP

Does this rule apply to all local ports or specific local ports?

All local ports
 Specific local ports:
Example: 80, 443, 5000-5010

< Back Next > Cancel

- Make sure that Allow the Connection is selected

What action should be taken when a connection matches the specified conditions?

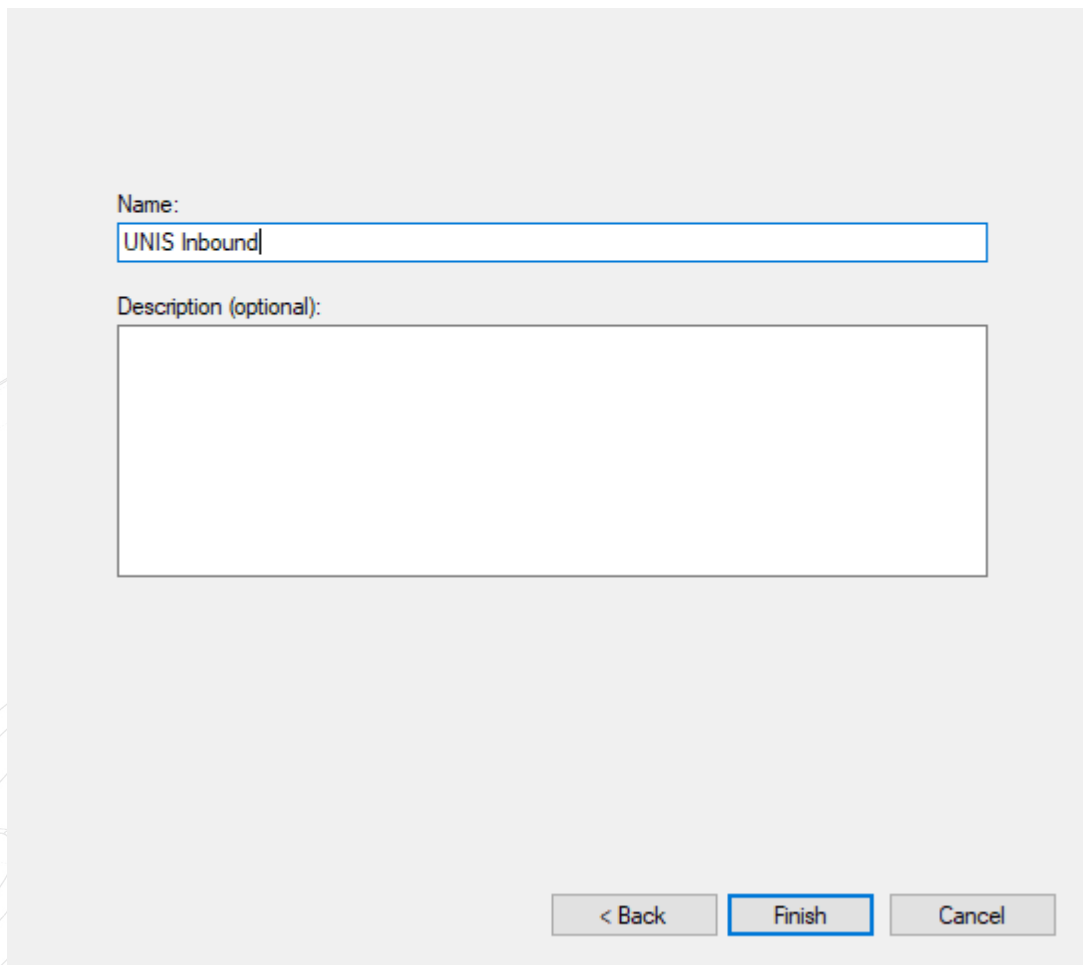
Allow the connection
This includes connections that are protected with IPsec as well as those are not.

Allow the connection if it is secure
This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.

Block the connection

< Back Next > Cancel

- Enter a name for the rule and click on Finish.



A screenshot of a configuration dialog box with a light gray background. At the top, the label "Name:" is followed by a text input field containing the text "UNIS Inbound". Below this, the label "Description (optional):" is followed by a larger, empty text area. At the bottom of the dialog, there are three buttons: "< Back", "Finish", and "Cancel". The "Finish" button is highlighted with a blue border.

- Repeat these steps for Outbound rules.

Installing the Virdi USB Take-on reader drivers

- Before starting to enrol users, ensure that the USB drivers have been installed for the Take-on reader.

Enrolling fingerprints out of Net2

- To add user's fingerprints, click on add user in the Net2 Software
- Add all relevant information such as first name, surname, department, and access level. Click on the Auto PIN button to create a unique 4-digit PIN and retype the PIN number in the Token Number field.
- Select Fingerprint Verification from the Token Type dropdown box.

Add user [X]

Please select the type of token which you wish to issue

Token type: Default [v] [New type]

First name: Joe [text]
Middle name: [text]
Surname: Soap [text]
Department: Visitors [v]
Access level: Working hours [v]
Telephone: [text] [text]
Fax: [text]
Valid from: 09/07/2018 [v]
Expires end: 09/07/2018 [v]
Address 1: [text]
Address 2: [text]
Town: [text]
County: [text]
Post code: [text]
Home telephone: [text]
Home Fax: [text]
Mobile: [text]
Card template: [v]

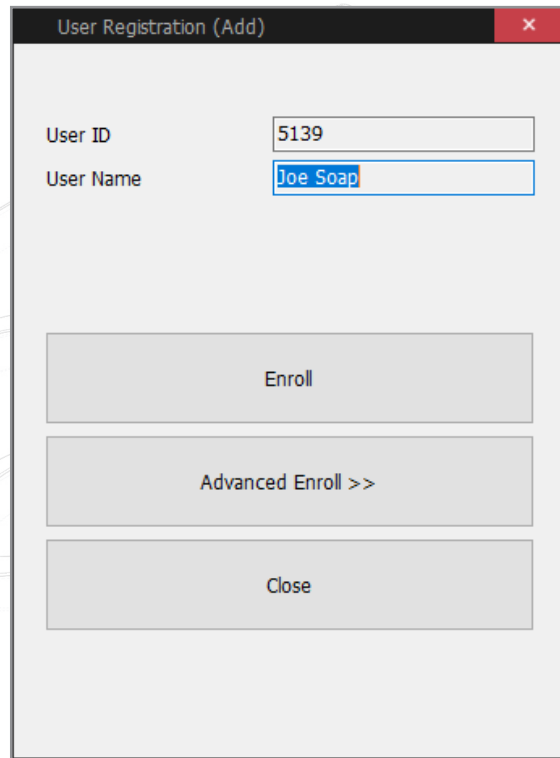
Get picture [button]
Capture Picture [button]

Email: [text]
Position: [text]
Start date: [text]
Car registration: [text]
Notes: [text area]
Personnel number: [text]
PIN: 5139 [text] [Auto PIN]
Token number: 5139 [text]
Token type: Fingerprint verification ... [v]

When I click 'Add user' reload the token type default values
 When I click 'Add user' retain the previous record values

[Print card] [Close] [Add user]

- Click on the Add User button which will save the user and open the VirDI User Registration screen for the fingerprints.
- Click the Enroll button



A screenshot of a 'User Registration (Add)' dialog box. The title bar shows 'User Registration (Add)' and a close button. The form contains two input fields: 'User ID' with the value '5139' and 'User Name' with the value 'Joe Soap'. Below the fields are three buttons: 'Enroll', 'Advanced Enroll >>', and 'Close'.

- Click on next



- Select the finger to enrol (it is good practice to do at least 1 finger from both hands)




- Once the fingerprint enrolment is completed, the fingerprint will be displayed as a token in the user's profile

Soap, Joe

First name: Joe
 Surname: Soap
 Department: Visitors
 Telephone: Fax:
 Personnel number:
 Valid from: 09/07/2018 Expires end: Never expires

Access rights | **Tokens** | Other details | Memo | Events | Current validity | Anti-passback | Multizone Intruder

PIN: 5139 Auto PIN Card template: None


5139

New token
Delete
Lost token
Found token
Change token type

Token has not been used in the past 12 months

Capture Picture | Get picture | Delete picture | Bar user | Delete record | Print card | Export vcf | Apply

Setting up Virdi integration with Paxton Net2 Client

- Fingerprints can now also be enrolled from a client PC. The following software needs to be installed on the client PC:
 - Net2 Software – same version as which is used on the Server
 - QEManager - same version as which is used on the Server
- The installation of QEManager for a client is the same as for the Server (see instructions earlier in the document)
- Right click on QEManager in the taskbar and select Settings.
- By default, all the IP addresses will point to the local machine (localhost IP of 127.0.0.1). Change all the IPs to the IP address of the PC running the Server software.

The screenshot shows the 'Environments' dialog box with the following configuration:

UNIS Connect Info		UDB Server		ODBC
Server IP	127.0.0.1	UDB IP	127.0.0.1	UNIS
Server Port	9871	UDB Port	9872	DB ID
				unisuser
				DB Pwd

Paxton Info	
Net2 Connect Info	
IP Address	127.0.0.1
Port	8025
ID	System engineer
Password	*****