Genie
ACCESS

Paxton Integration Software

Bio-Merge-PX
By Genie Access

User Guide

BIO-MERGE-PX Installation Requirements

Minimum PC Specification

Supported Operating Systems:
Windows 7, Windows Server 2008, Windows Server 2008 R2, Windows XP
SP3

Processor:
Pentium IV compatible processor with a minimum speed of 1 GHz

RAM:
Minimum 2GB

Graphics:
512 MB PCI2 x16

Network Requirements

The following network ports should be allowed

TCP/IP 9870 Virdi reader server

Prerequisites

Paxton Net2 version 4.27 or later
USB desktop reader drivers (on installation disk) BIO-MERGE-PX can
only be installed on Paxton Server, although in certain circumstances this
software will run successfully on a Paxton Client using PACS settings.
The Card Format should be set to Hexa 2 on all AC2500 terminals and to
Hexa on AC5000 terminals.

Software Installation

BIO-MERGE-PX should be installed on the Paxton server PC. Before
installing please check the minimum specifications and the prerequisites.

1. Load the BIO-MERGE-PX CD-ROM and install the desktop reader
   drivers by clicking the "1. Install Desktop Reader Drivers" button on the
   auto run menu.
2. Click "2. Install BIO-MERGE-PX for Paxton" button on the auto run
   menu.

Depending on the software already installed the installer will firstly install all
the pre-requisites. All pre-requisites are on the installation CD-ROM. The
pre- requisites for BIO-MERGE-PX are:

Windows Installer 4.5
Net Framework 3.5 SP1
SQL 2008 R2 Express

3. Run through the installer which may prompt for several reboots depending on the pre-requisites it installs.
4. On completion restart the PC.

NB

If the Windows 7 operating system is being used we recommend that User account and Areo themes are disabled and a basic theme used. Also, the software should only be used with an account having administrator privileges.

First Time Using BIO-MERGE-PX

Once the PC is rebooted BIO-MERGE-PX starts automatically. BIO-MERGE-PX can be found in Start --> All Programs --> Start up folder. On first run the software requires to be licenced. The licence window will popup advising a licence is required.

1. Contact your vendor and supply the site id, and company name.
2. Vendor will generate licence key.
3. Enter licence key and press Save Licence.
4. If licence key is valid the window disappears.

NB

Please ensure all respective Paxton ACU's are connected to the Paxton Server otherwise there may be naming issues as BIO-MERGE references the readers by their ACU ID

PACS Settings

On installation BIO-MERGE-PX is configured to connect to Paxton software on the target machine using the "System engineer" account and the default password of "net2". The credentials can be changed providing the Paxton user has system engineer rights. To change the credentials.

1. Right click 🔵 icon in the system tray.
2. Select PACS Settings.
3. The PACS Settings window appears.
4. Enter new details and click OK.
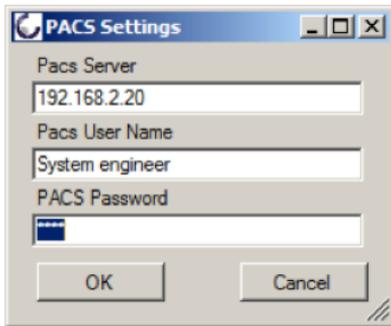
New Terminal Registration

Whenever a new terminal registers with BIO-MERGE-PX a Terminal Registration window appears. Select or type a name for the terminal and select Terminal Type.

Select send all users to terminal to send existing fingerprints to terminal.
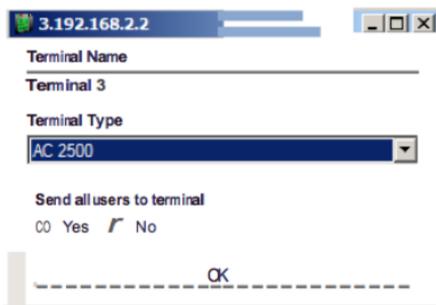
Adding a New User

1. Add the user using Paxton Software and select token type as "Fingerprint verification card". Ensure the user has access rights, No access will be ignored.
2. BIO-MERGE-PX dialogue box pops up.
3. The Admin User check box enables the user to enter in to terminal administration. Check the box.
3. To enrol user click on "Quick Enrol" or "Advanced Enrol".

Quick Enrol

4. The finger print enrolment screen appears, click Next.
5. Select finger to enrol.
6. Read fingerprint on desktop reader.
7. Click Finish.
8. Fingerprints are automatically synced to the terminal readers.

Advanced Enrol

4. The Advanced Enrol dialogue box appears.
5. Select desired options and click OK.
6. The finger print enrolment screen appears, click Next.
7. Select finger to enrol.
8. Read fingerprint on desktop reader.
9. Click Finish.
10. Fingerprints are automatically synced to the terminal readers.
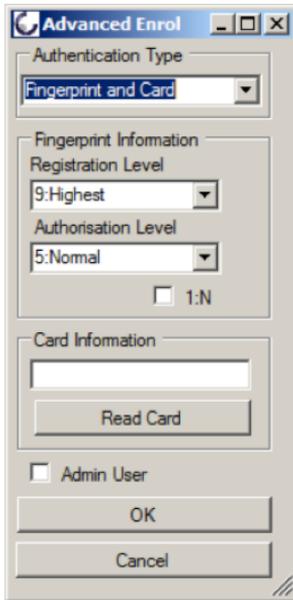
Authentication type allows you to select alternative methods for authenticating a user. Options are:
Fingerprint only Fingerprint and Card Fingerprint or Card Card Only

When selecting an option that includes a card the card information becomes available. The Read Card button allows you to read the card using the desktop reader. Note: Terminal card format should be set to Hexa (AC5000) or Hexa 2 (AC2500).

Admin User check box turns user into terminal admin. This locks normal users from making changes to terminals locally.

Delete User

Users are deleted automatically when they are removed from Paxton, or their access level is set to No Access. Note: BIO-MERGE-PX should be running at all times to ensure full system synchronisation.

Restoring Data to Terminal

All data that is send to the terminals is stored in a database. When required there is an option to restore a terminal using BIO-MERGE-PX. To restore a terminal:

1. Right click 🌀 icon in the system tray.
2. Select Restore Terminal.

3. The database window is displayed.
4. Select the terminal from the drop down list.
5. Once selected the data for the terminal will show in the data grid.
6. Click the Restore Data to terminal button to restore the data.
7. Confirm the message warning.
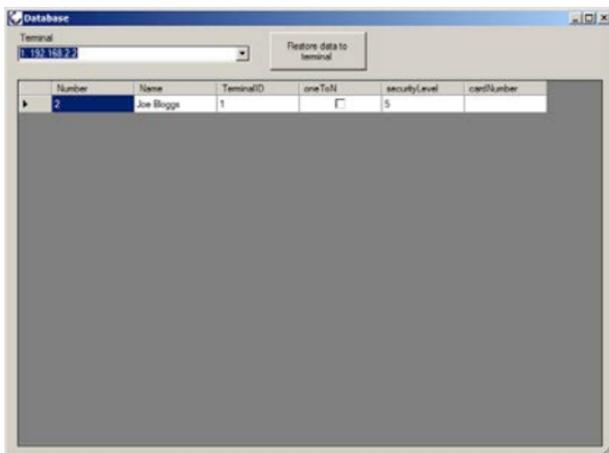
Uploading Firmware to a Terminal

To upgrade a terminal's firmware:

1. Right click 🌀 icon in the system tray.
2. Click on Firmware Upload.
3. Select terminal from drop down list.
4. The current firmware version is displayed.
5. To upgrade the firmware press the Upload Firmware button.
6. A file dialogue window appears allowing you to locate the firmware file.
7. Select firmware file and click Open.
8. Wait until message box confirms success.
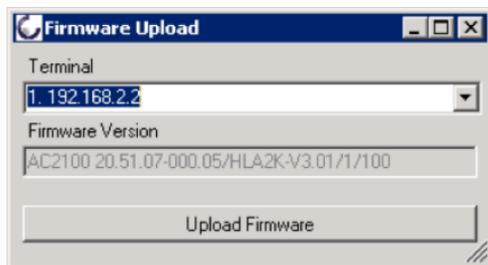
Uploading Files to Terminal

To upload files:

1. Right click ⟳ icon in the system tray.
2. Click on File Upload.
3. Select terminal from drop down list.
4. Select file type from drop down list.
5. Press Upload Files button.
6. Select file and click Open.
7. Wait until message box confirms success.

Backup, Schedule Backup and Restore Backup

It is highly recommended to configure at least one scheduled backup, and ensure the backup files are regularly stored on another drive to maintain the data in the event of a crash.

Backup

1. Right click ⟳ icon in the system tray.
2. Click on Backup, Restore and Schedule.
3. Enter a name for the backup.
4. Select a location by pressing the '...' button or enter a file path.
5. Select Now.
6. Press Apply.
7. The application closes after backup succeeded.

Scheduled Backup

To upload files:

1. Right click 💍 icon in the system tray.
2. Click on Backup, Restore and Schedule.
3. Select a location by pressing the '...' button or enter a file path.
4. Select Schedule.
5. Enter first date and time.
6. Select Frequency Daily, Weekly or Monthly.
7. Press OK.
8. Application closes when schedule is applied successfully.

Recover a Backup

To upload files:

1. Right click 💍 icon in the system tray.
2. Click on Backup, Restore and Schedule.
3. Select the Recover tab.
4. Enter file path of backup file or use browse '...' button to select file.
5. Press Apply.
6. Application closes on successful restore.
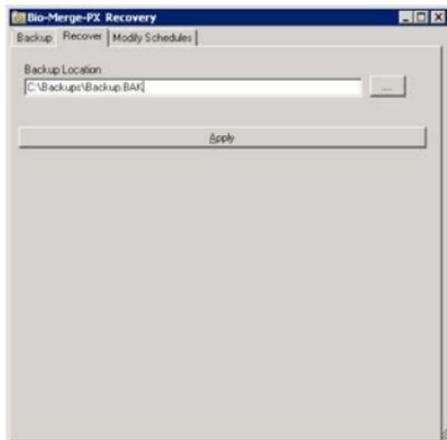
Recover a Backup

To upload files:

1. Right click ⟲ icon in the system tray.
2. Click on Backup, Restore and Schedule.
3. Select the Recover tab.
4. Enter file path of backup file or use browse '...' button to select file.
5. Press Apply.
6. Application closes on successful restore.
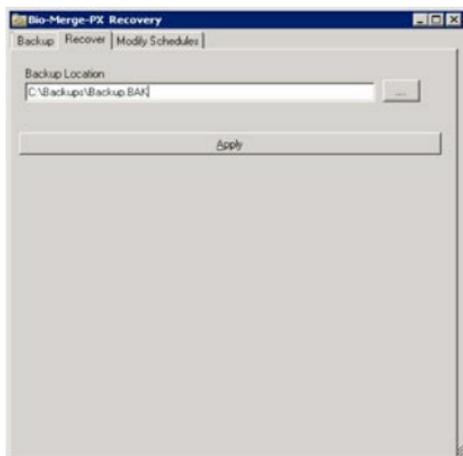
Modify Schedule

To upload files:

1. Right click ⟲ icon in the system tray.
2. Click on Backup, Restore and Schedule.
3. Select the Modify Schedules tab.
4. Highlight schedule you wish to change.
5. Press the Edit Schedule button.
6. First tab shows with existing schedule details.
7. Amend and press Apply when OK.
8. Application closes on successful change.
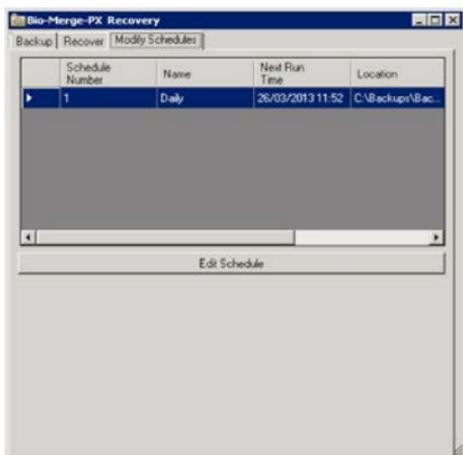
Integration Notes & Connections

Overview:

The Virdi AC5000 fingerprint reader connects to the Paxton NET2 ACU via Wiegand connections and Ground.

A successful transaction on the Virdi terminal is then interpreted as a Wiegand ID and this is communicated to the NET2 ACU via the conventional Wiegand data connections.

Power Requirements:

The AC 5000 reader may be powered from the ACU provided the power supply can provide at least 2 Amps for the Virdi terminal to function correctly under load.

Alternatively please use the power supply which is supplied with the Virdi terminal. In this instance ensure the ground cable (brown) from the supplied Wiegand cable 5P is connected to 0 Volt / Ground in the NET2 ACU; as per illustration below.

AC 5000 - PAXTON NET2 CONNECTIONS

Net2 Reader Connections:
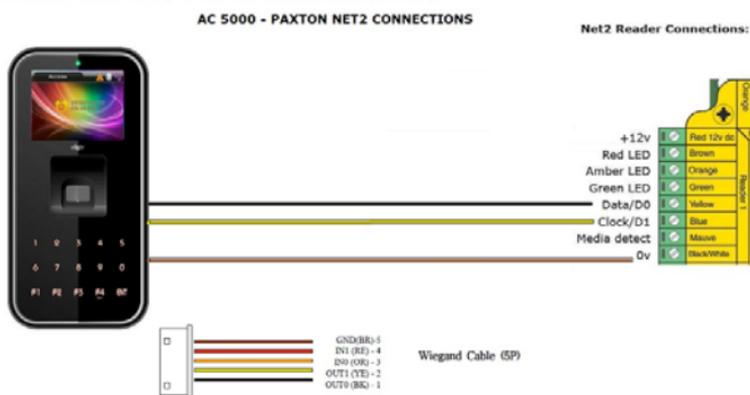
Wiegand Connections:

Using the supplied Wiegand connector;
Connect Black   (Wiegand Out 0) To D 0 on ACU
Connect Yellow (Wiegand Out 1) To D 1 on ACU
Connect Brown   (Ground) To 0V / GND on the ACU

TERMINAL SET UP – QUICK START GUIDE

There are two basic requirements to follow to get your system up and running.
1. Set up the terminal IP, Server IP and Terminal ID.
2. Set up Wiegand output format in the terminal.
The Virdi terminals communicate via TCP/IP to the allocated server where the Biomerge software is installed. Please follow the steps below for configuration.

TCP/IP SET UP:

1. TERMINAL IP SET UP
- Press and hold ENT to enter menu
- Select option 2 (Network)
- Select option 1 (IP Address)
- Use F4 to delete characters and type in new IP address using keypad
- Hold Down Enter for next step or to Exit

2. SERVER IP SET UP
- Press and hold ENT to enter menu
- Select option 2 (Network)
- Select option 2 (Server IP)
- Use F4 to delete characters and type in new IP address using keypad
- Hold Down Enter for next step or to Exit

3. TERMINAL ID SET UP
- Press and hold ENT to enter menu
- Select option 2 (Network)
- Select option 3 (Terminal ID)
- Use F4 to delete characters and type in ID using keypad
- Press enter and select option 4 (Terminal Only)
- Hold Down Enter or to Exit
- Press F4 twice until you see option to SAVE
- Press 1 for YES (To Save) Followed by Enter

WIEGAND SET UP:

Please ensure Wiegand is enabled in the Virdi terminal by following these steps:
1. Press and hold ENT to enter reader menu
2. Select option 5 (Terminal)
3. Select option 4 (Wiegand)
4. Press ENT to select Wiegand out format.
5. Press 3 to select 26 Bit.
6. Select site code if applicable, or leave as 0
7. Press and Hold ENT to exit
8. Press F4 twice until you see option to SAVE
9. Press 1 for YES (To Save) Followed by Enter