



OPEN OPTIONS<sup>®</sup>  
— ACCESS TECHNOLOGY —

# Suprema BioConnect Integration Guide



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The DNA Fusion™ Access Control Software and SSP™ Security System Processor use equipment that generates, uses, and radiates radio frequency energy. If not installed and deployed in accordance with the guidelines of this installation manual, they may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be required to correct the interference at their own expense.

The DNA Fusion™ Access Control Software and SSP™ Security System Processor shall be installed in accordance with this installation manual and in accordance with the National Electric Code (N.E.C), ANSI and NFPA 70 Regulations and recommendations.

Publish Date: October, 2021

Manual Number: SBIGv1

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# Suprema BioConnect Integration

The integration of DNA Fusion and BioConnect allows for the enrollment of biometric templates seamlessly through DNA Fusion.

BioConnect provides an easy way to manage BioConnect readers with access control systems. The BioConnect software is used exclusively as an enrollment utility. Users are available within the BioConnect enroller as soon as they are created within DNA Fusion. Likewise, BioConnect modifications are available as soon as they take place within DNA Fusion access control system. For more information on BioConnect installation settings, see BioConnect's Installation Guide.



Follow the steps below to integrate BioConnect's Enterprise Software and hardware with DNA Fusion.

The steps are the following:

**Step 1:** *Configuring a BioConnect Reader in DNA Fusion* - Wire the BioConnect reader to the reader port of a panel (Ex. subcontroller). When adding the reader in DNA Fusion, ensure that the Allow Biometrics checkbox is marked.

**Step 2:** *BioConnect Suprema Licensing* - Open command prompt to "install" the BioConnect Suprema license.

**Step 3:** *Installing the BioConnect Software* - Go to [ooaccess.com](http://ooaccess.com) and click the link Bioconnect Install Package. Download the desired software and follow the BioConnect installation instructions. After the BioConnect installation, open the BioConnect Server Setup Assistant to configure server and port settings.

**Step 4:** *Configuring BioConnect* - Configure the BioConnect reader in the BioConnect software. Enroll users with an enrollment reader and sync biometrics to DNA Fusion.

*Troubleshooting* - Readers that fail to establish a connection with BioConnect may need to be factory reset. Set the reset switch and apply power to the device. Set PC Network settings to match the BioConnect device then open BioStar to adjust the device's network settings.

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## Configuring the BioConnect Reader in DNA Fusion

This section covers the wiring process for BioConnect readers. The readers are wired to the reader ports of an access control panel and the network through a TCP/IP port. For more information on the reader, see the device's hardware guide.

### Wiring the BioConnect Device

The table below shows a wiring example between an Access Control Panel and a BioEntry Plus biometric reader.

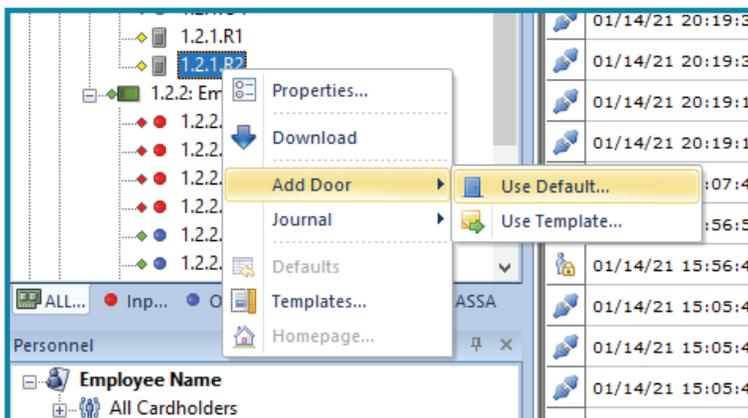
ACCESS CONTROL PANEL	BIOENTRY READER
Vout	Power +12V
DAT D0	Wiegand Data 0
CLK D1	Wiegand Data 1
GND	Wiegand GND
	Power GND

- Wire** the Power +12V wire to the Vout terminal.  
Recommended power requirements: 12V  $\pm$  10%, at least 500 mA.
- Wire** the Power GND wire to the GND terminal.
- Wire** the Wiegand Data 0 wire to the DAT D0 terminal.
- Wire** the Wiegand Data 1 wire to the CLK D1 terminal.
- Wire** the Wiegand GND wire to the GND terminal.
- Connect** Ethernet cable to the readers TCP/IP port.  
The minimum requirement is a CAT-5 Ethernet cable.
- Attach** the other side of the Ethernet cable to a Ethernet hub.  
Ensure that an Internet connection is available.

### Adding the BioConnect Reader to DNA Fusion

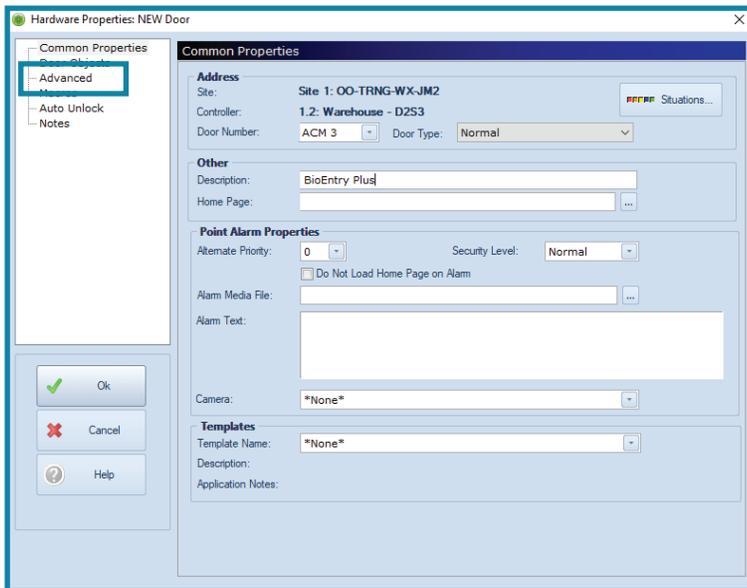
To add the device to DNA Fusion:

- Open** DNA Fusion.
- Open** the Hardware browser.
- Expand** the desired SSP tree.
- Expand** the desired SIO tree.
- Right-click** on an available reader port and **select** Add Door > Use Default.

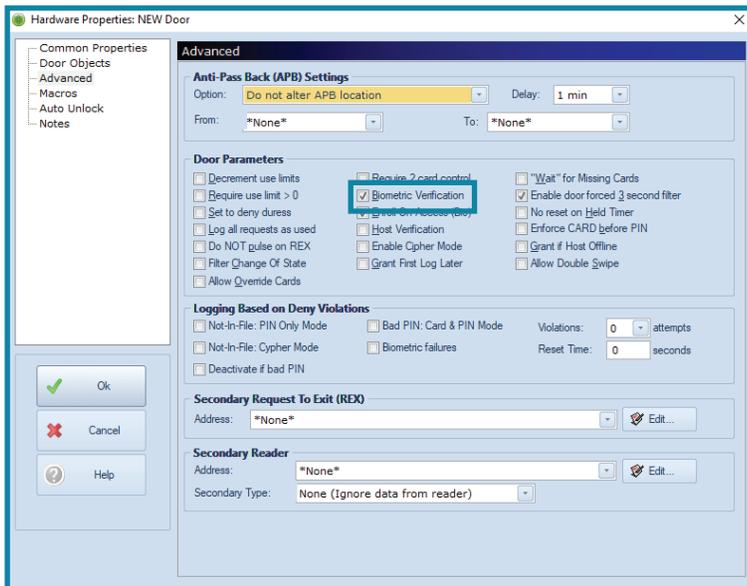


- Add** a Description for the door.

7. **Click** on Advanced.



8. **Check** the Biometric Verification checkbox.



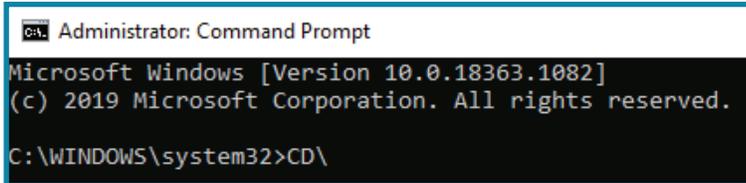
9. **Click** Ok and Yes to download the changes.

## BioConnect Suprema Licensing

In addition to acquiring a Suprema license, some configuration is needed to “install” the license.

To install the license:

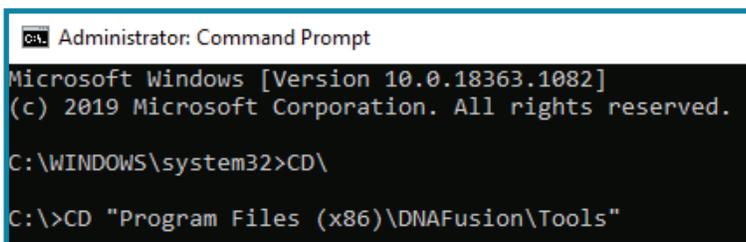
1. **Open** Command Prompt as an administrator.
2. **Change** the directory.
  - a. **Type** CD\ and **tap** Enter.



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>CD\
```

- b. **Type** CD "Program Files (x86)\DNAFusion\Tools" and **tap** Enter.

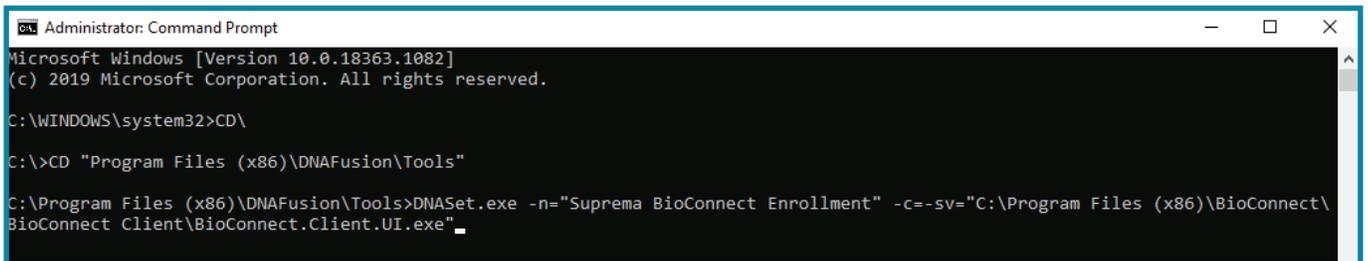


```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>CD\
C:\>CD "Program Files (x86)\DNAFusion\Tools"
```

3. **Type:**

DNASet.exe -n="Suprema BioConnect Enrollment" -c=-sv="C:\Program Files (x86)\BioConnect\  
BioConnect Client\BioConnect.Client.UI.exe"

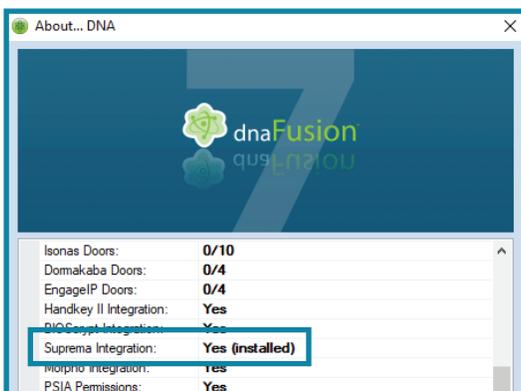


```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.18363.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>CD\
C:\>CD "Program Files (x86)\DNAFusion\Tools"
C:\Program Files (x86)\DNAFusion\Tools>DNASet.exe -n="Suprema BioConnect Enrollment" -c=-sv="C:\Program Files (x86)\BioConnect\
BioConnect Client\BioConnect.Client.UI.exe"
```

4. **Tap** Enter.
5. Once the script is ran, **close** and reopen DNA Fusion.
6. **Click** on Help > About DNA

The Suprema license is listed as (installed).



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## Installing the BioConnect Software

The BioConnect Install package includes the client and the server installation files. Windows SQL Server 2014 or higher is required for the latest BioConnect Install (SQL Server 2014 is included in the Enterprise version).

Download the latest BioConnect Install package from [ooaccess.com](http://ooaccess.com).

FULL INSTALL	FILE NAME	VERSION	DOWNLOAD
Open DX	Open DX Setup.exe	6.36	<a href="#">OpenDX Download</a>
Suprema BioConnect Integration	BioConnect Install Package - Open Options.zip	4.7	<a href="#">BioConnect Install Package</a>
Flex API Installation	Flex API Install.exe	1.28 Requires DNA Fusion 7.7.0.32 or greater	<a href="#">Flex API Install</a>

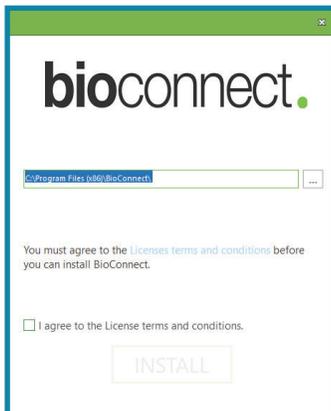
The BioConnect software file contents:

- BioConnect Integration Software
- BioConnect Networking Utility Tool
- BioStar Configuration Software
- Rabbit Configuration Tool
- BioMini Driver

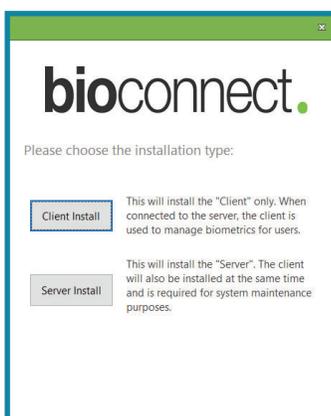
### *Installing BioConnect*

1. After the files are download, **open** the BioConnect Install Package to begin the installation.
2. **Agree** to BioConnect's licensing terms and condition.

Default Path: C:\ Program Files (x86) \ BioConnect.



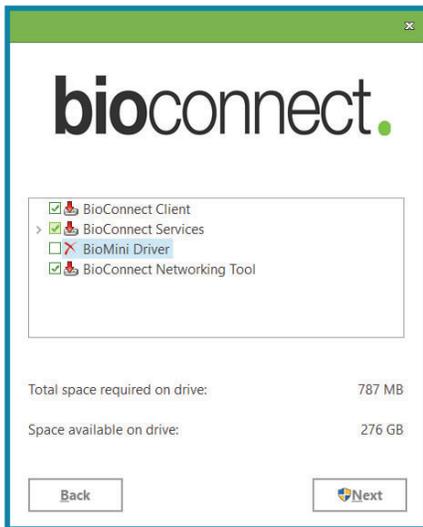
3. **Click** Install.
4. **Select** an installation type.



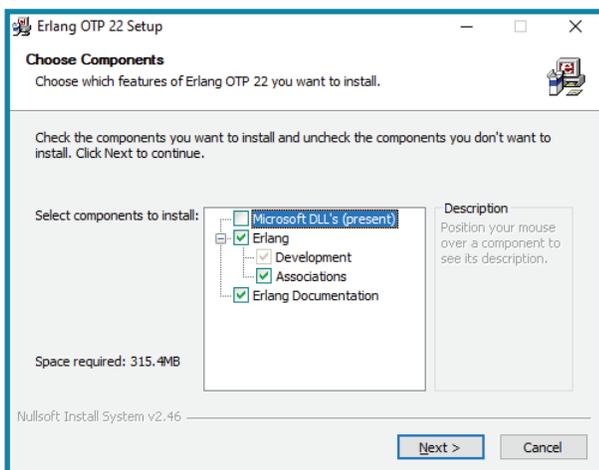
Client Install: Installs the "Client" only. The "Client" install manages biometrics for users.

Server Install: Installs both the "Server" and the "Client" and is responsible for system maintenance purposes.

5. **Choose** any additional applications to download and **select** Next.



6. **Choose** the components to install and **click** on Next.

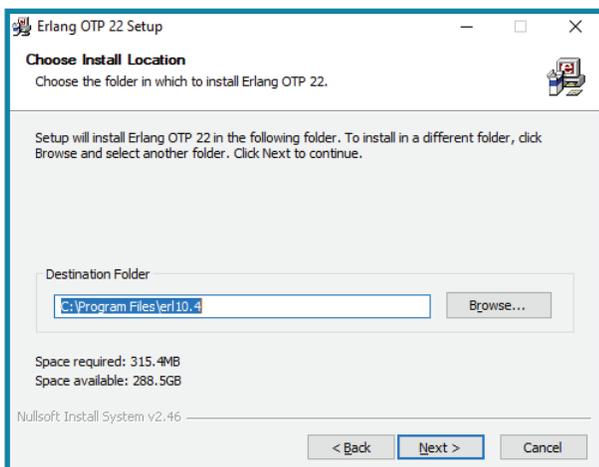


7. **Choose** a location for the Erlang OTP setup and **click** on Next.

OR

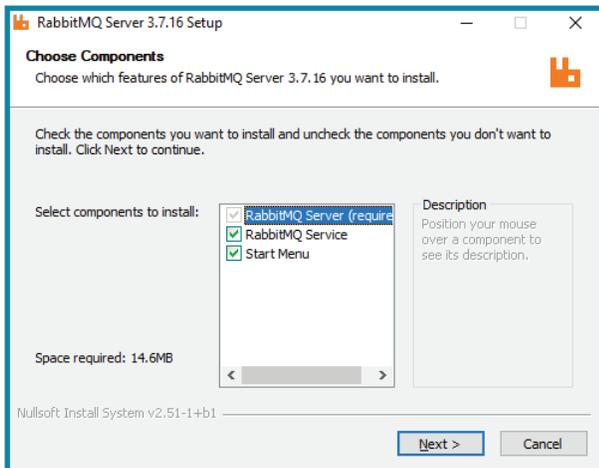
**Leave** the location as default and **click** on Next.

Default Path: C:\Program Files\erl10.4



8. After the program is installed, **close** out of the window.

9. **Choose** which components to install for the RabbitMQ Server and **click** Next.

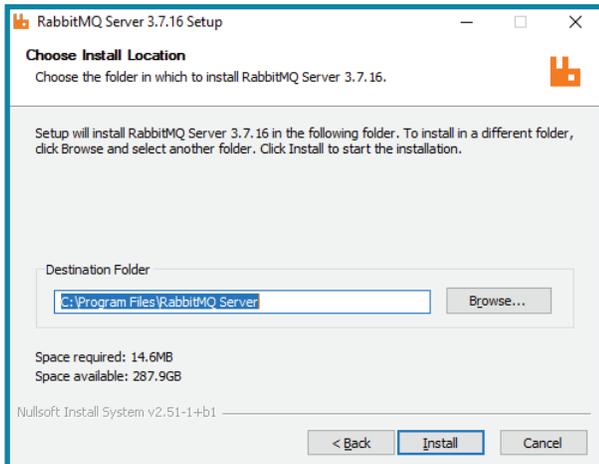


10. **Choose** a location for the RabbitMQ Server setup and **click** on Next.

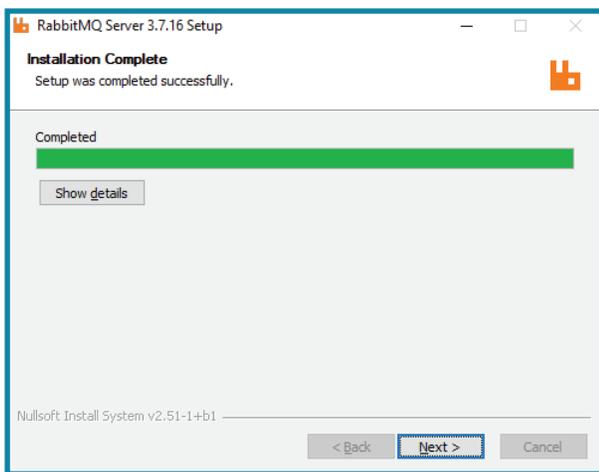
OR

**Leave** the location as default and **click** on Next.

Default Path: C:\Program Files\RabbitMQ



11. Once the installation is complete, **click** on Next.

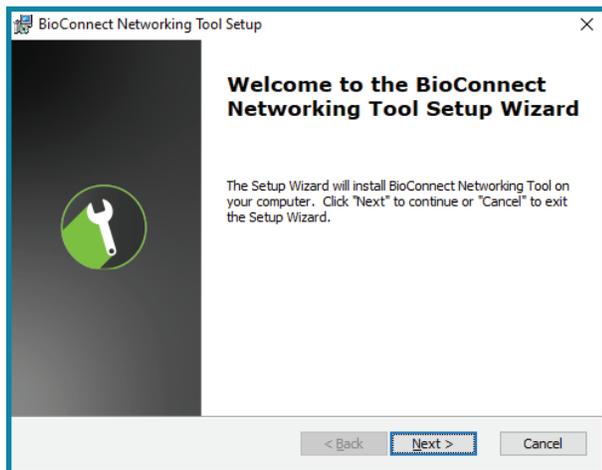


12. Once the setup is complete, **click** on Finish.  
The BioConnect Networking Tool setup window opens.

## Installing the BioConnect Networking Tool

To install BioConnect:

1. **Click** Next.

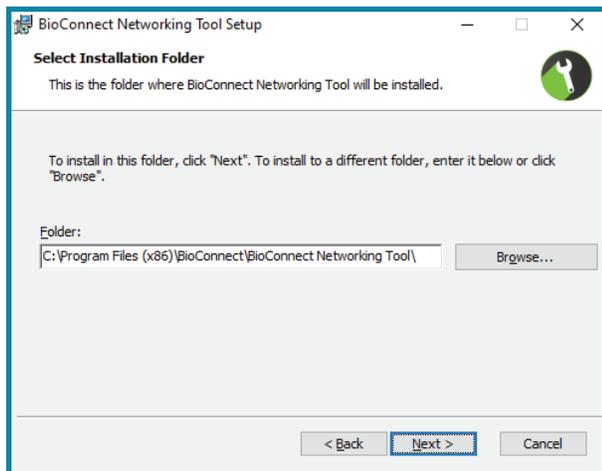


2. **Choose** a different location for the BioConnect Networking Tool and **click** on Next.

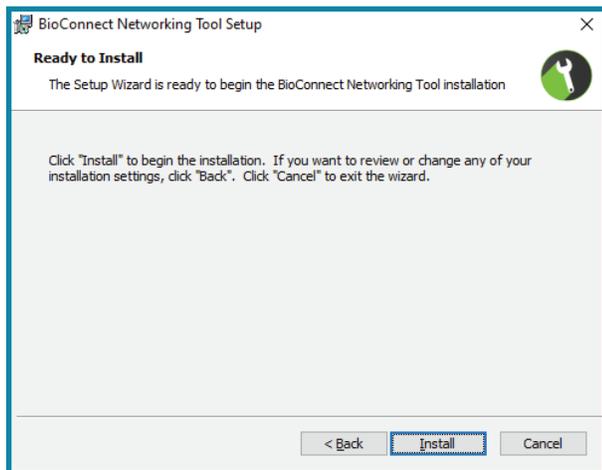
OR

**Leave** the location as default and **click** on Next.

Default Path: C:\Program Files (x86)\BioConnect\BioConnect Networking Tool



3. **Click** on Install.



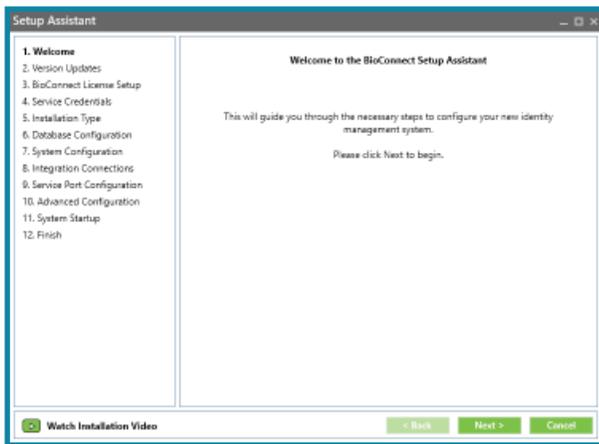
- Once the BioConnect Networking Tool is downloaded, **click** Finish.



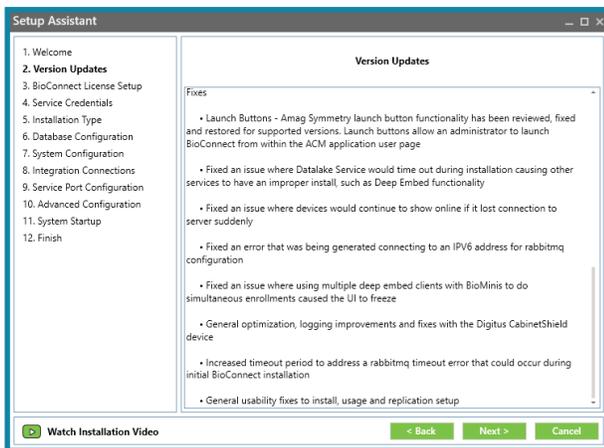
### ***BioConnect Server Setup Assistant***

To setup the BioConnect server:

- Open** the BioConnect Server Setup Assistant.
- Click** Next to see recent version updates.

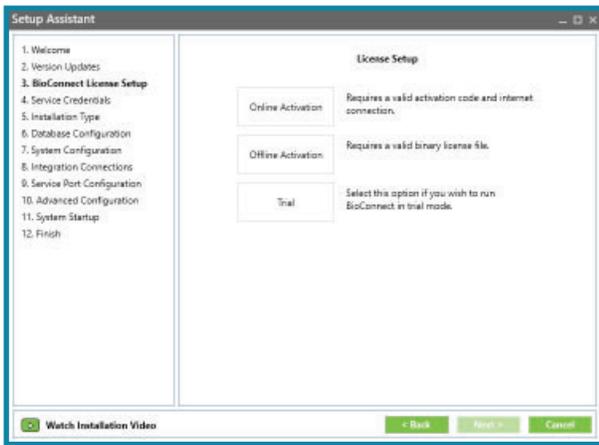


- Click** Next.



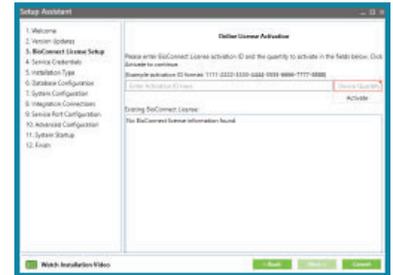
- Click** Next.

5. **Select** a License Setup that applies to the system.



**Online Activation**

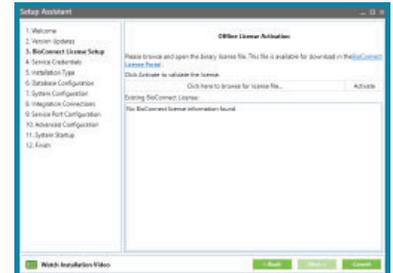
- a. **Enter** the Activation Code and the number of devices included with your license.
- b. **Select** Activate.  
If successful, the license will appear on the screen.
- c. **Click** Next.



**Offline Activation**

Contact the BioConnect Technical Support team at support@bioconnect.com to acquire an offline license

- a. **Copy** the license file and save it onto the BioConnect Enterprise Server.
- b. **Click** the Browse button.
- c. **Locate** the saved license file.
- d. **Click** on Activate to validate the license.  
If successful, the license will appear on the screen.
- e. **Click** Next.



**Trial Activation**

BioConnect Enterprise install includes a trial, which includes a maximum device limit of 1 device/reader.

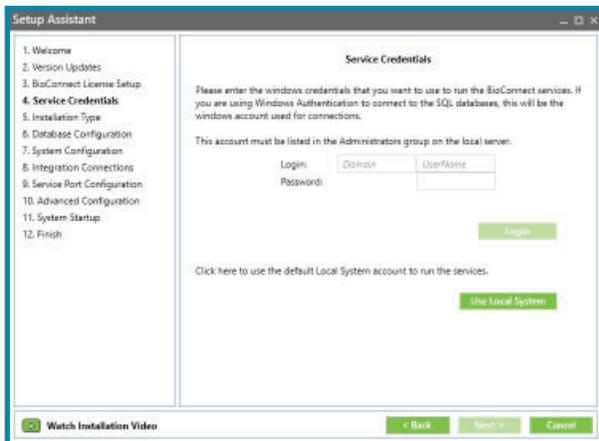
- a. **Click** Create Trial License.  
If successful, the license will appear on the screen.
- b. **Click** Next.



6. **Enter** the desired Windows Credential.

OR

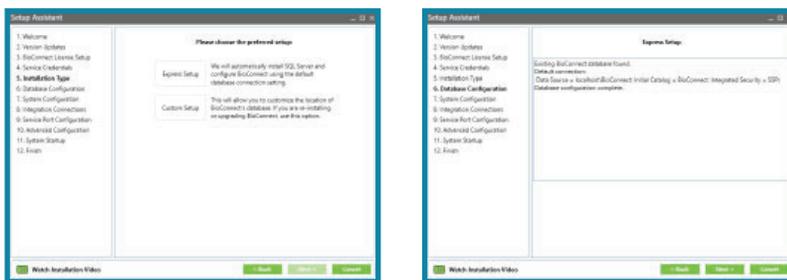
**Click** on Use Local System.



7. **Click** Next.

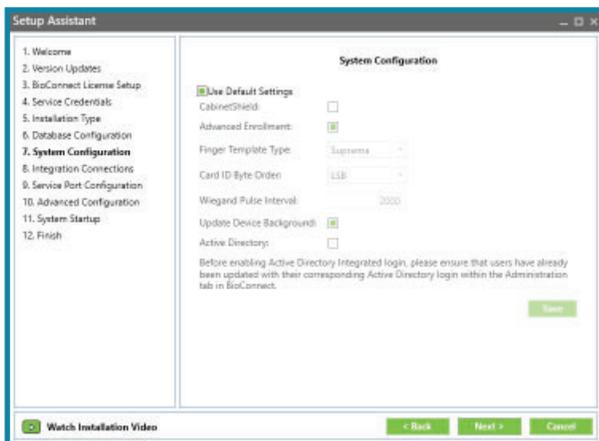
8. **Choose** a preferred setup.

Database configuration begins.



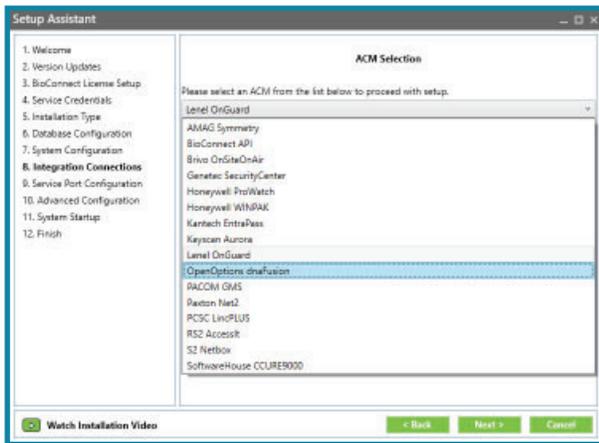
9. Once the database is successfully configured, **click** Next.

10. If needed, **uncheck** the Use Default Settings to change the settings.

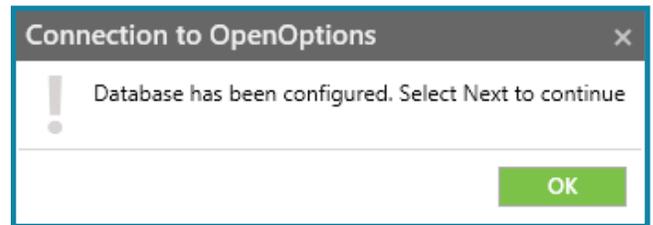
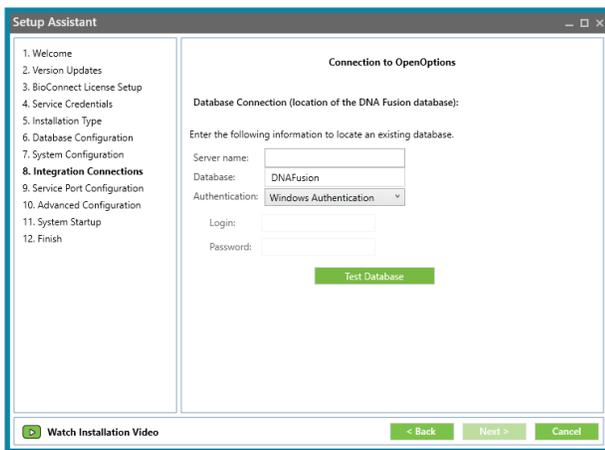


11. Once the settings are configured, **click** Next.

12. **Select** Open Options dnaFusion for the ACM and **click** Next.



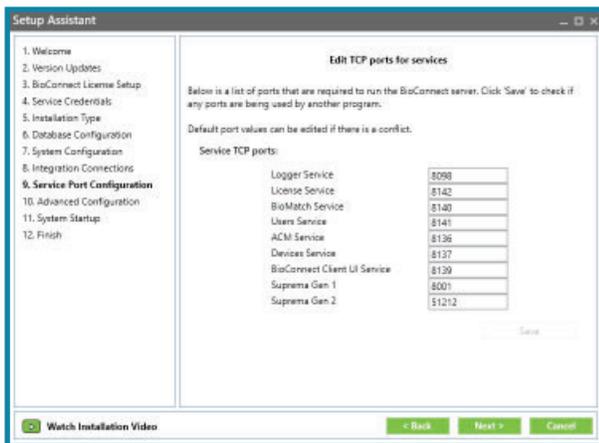
13. **Enter** the Server Name, Database, and **select** the type of Authentication.



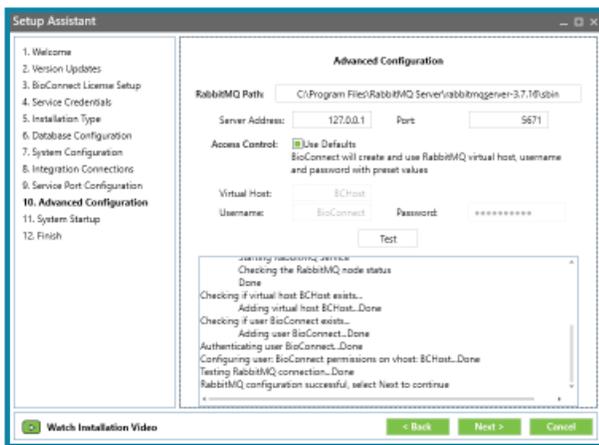
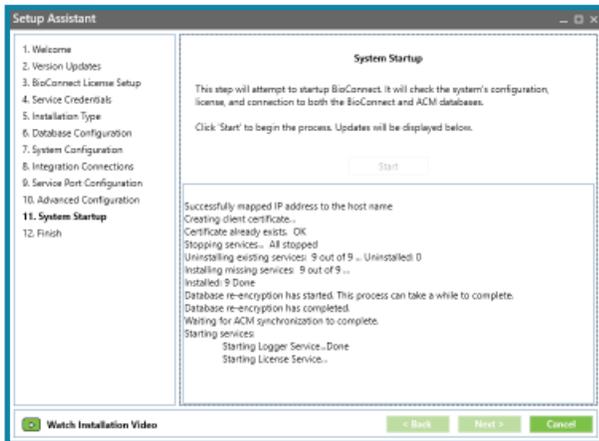
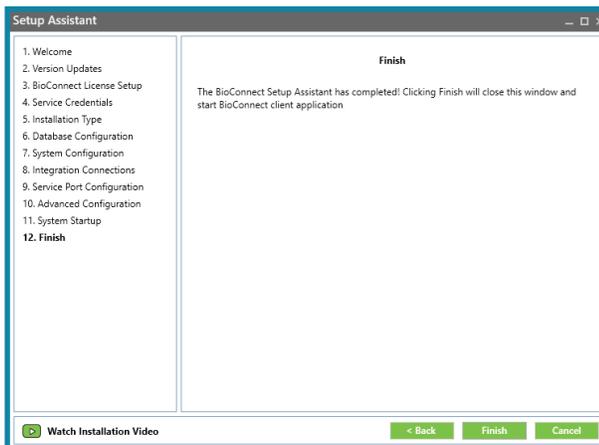
14. **Click** on the Test Database button.

15. **Click** OK and **click** Next to configure service ports.

16. If needed, **configure** desired ports or use the default ports. Ensure that the those ports are open.



17. **Click** Next.

18. If needed, **adjust** the server configuration19. **Click** Test.20. Once the test is successful, **click** Next.21. For the System Startup, **select** the Start button.22. After the startup is complete, **click** Next.23. **Click** Finish to open BioConnect.

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## Configuring BioConnect

After BioConnect is installed, the user credentials and hardware can be configured.

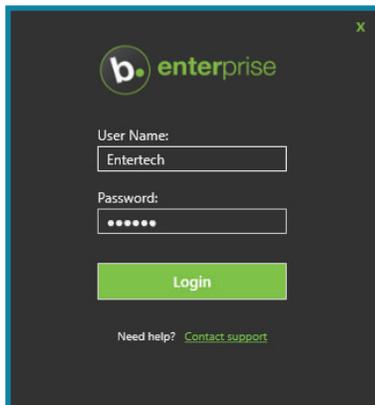
To open BioConnect:

1. **Open** DNA Fusion.
2. **Open** the desired Personnel Record.

3. **Select** the Card Tab.

4. **Click** the Enroll drop-down menu.

5. **Click** on Enroll Current Card (Suprema).  
BioConnect opens.
6. **Enter** the User Name and Password.  
Default Username: Entertech  
Default Password: Bobcat

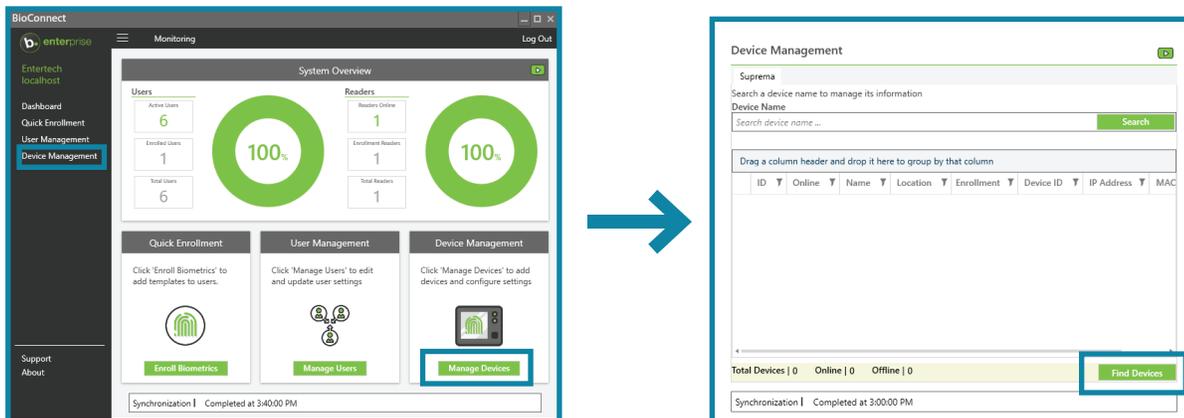


**Note:** Enrolling a credential in BioConnect cannot be completed using the default, "root" level account.

### Configuring BioConnect Hardware

The BioConnect Enterprise software is where devices are configured. The user's biometric information is also recorded in BioConnect.

1. **Click** on Manage Device.



2. **Click** on the Find Device button.  
The BioConnect Networking Tool opens.

### 3. **Search** for devices using UCP Search or TCP Search.

UCP Search: Locates devices on local subnet. The search will result in basic device information.

TCP Search: Locates all devices using the defined network range. The search will result in basic device information.

The screenshot shows the 'Device Search' interface. It has two main sections: 'UDP Search' and 'TCP Search'. The 'UDP Search' section has a 'START SEARCH' button. The 'TCP Search' section has fields for 'Device IP Range', 'Device Type' (a dropdown menu), and 'Device Port', along with a 'START SEARCH' button. Below these sections is a search bar labeled 'Search Devices List...' and a table with columns: ID, Version, IP, Device Model, and Status. A note below the table says 'Select a search to view results.'

### 4. **Select** Start Search.

This screenshot shows the same 'Device Search' interface as above, but with search results displayed in the table. The table has columns: ID, Version, IP, Device Model, and Status. There are two rows of data.

ID	Version	IP	Device Model	Status
539750890	V1	10.0.25.231	BioEntryPlus	Available
539300066	V1	10.0.25.173	BioEntryPlus	Cannot Connect

Once the search is concluded, desired devices are shown in the results. Status determines whether the device can be configurable.

Available: Indicates whether the device is connected to the network successfully. The device's network settings can be configured.

Cannot Connect: Indicates the connection was not successful. The device may be connected to a different server or the IP address is unreachable.

### 5. **Click** on a device.

### 6. **Adjust** the network setting of the device.

For BEP readers, the device port must match the server port.

Port: 8001 (Generation 1 devices).

Port: 51212 (Generation 2 devices).

### 7. **Click** on APPLY CHANGES.

### 8. **Select** Start Search to reload the devices.

The device will appear in the Device Management section of the BioConnect software.

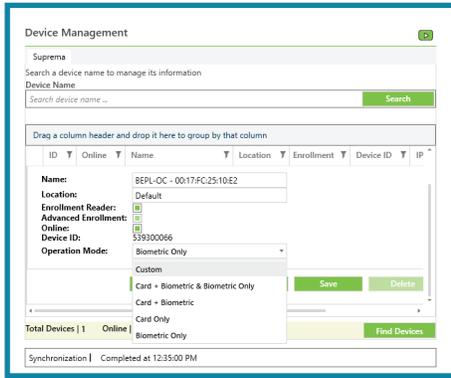
The screenshot shows the 'Device Management' interface. It has a search bar for 'Device Name' and a 'Search' button. Below is a table with columns: ID, Online, Name, Location, Enrollment, Device ID, and IP Ad. There is one row of data.

ID	Online	Name	Location	Enrollment	Device ID	IP Ad
+ 3	<input checked="" type="checkbox"/>	BEP-OC - 00:17:FC:25:10:E2	Default	<input checked="" type="checkbox"/>	539300066	10.0.2

At the bottom, there is a summary bar: 'Total Devices | 1 | Online | 1 | Offline | 0' and a 'Find Devices' button. Below that is a synchronization status: 'Synchronization | Completed at 11:10:00 AM'.

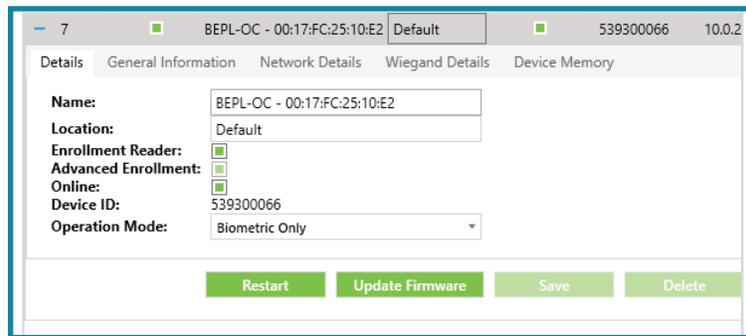
9. **Edit** the device.

To configure the reader as an enrollment reader, ensure that the Enrollment Device checkbox is filled.



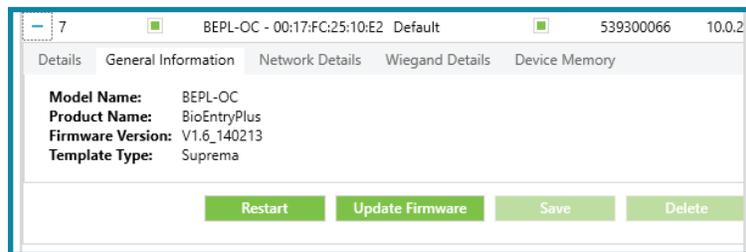
**Details**

Clicking on the Details tab displays information about the reader. The device can be given a Name and a Location. The device’s Operation Mode can be changed by selecting an option from the drop-down menu.



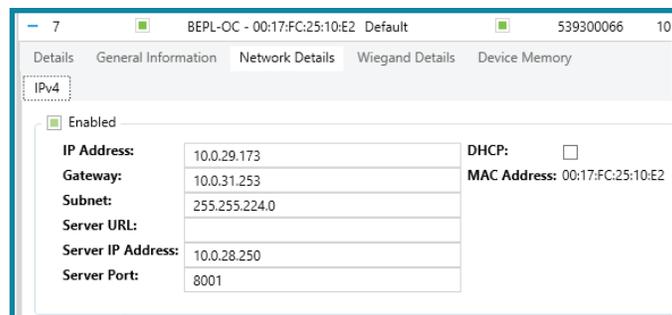
**General Information**

This tab displays information about the reader.



**Network Details**

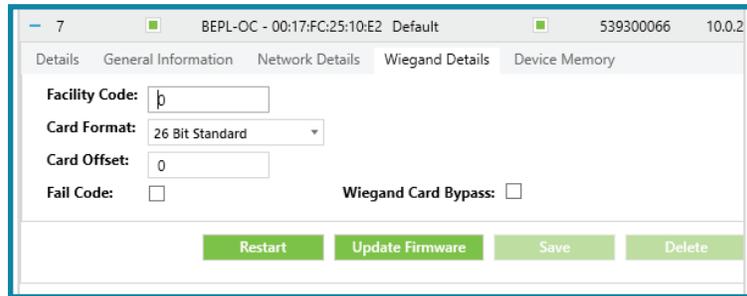
This tab allows the user to edit the network settings of the device.



## Wiegand Details

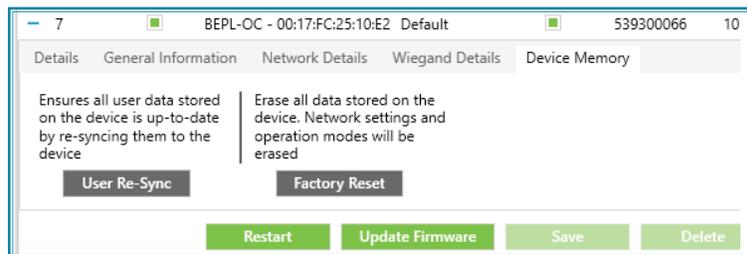
In the Wiegand Details tab, the reader can be set to the desired card format and Facility Code. If needed, Card Offsets can also be added. The Wiegand Card Bypass allows the User ID to be sent instead of the card number to the controller after a successful card or finger authentication at the reader. Card formats that are included:

- Standard 26 Bit
- 32 Bit Mifare CSN
- 35 Bit Corporate 1000
- 37 Bit H10304
- 48 Bit Corporate 1000



## Device Memory

Allows the user to delete all the data on the device and re-sync the device. The Factory Reset button resets the device to the default factory settings.

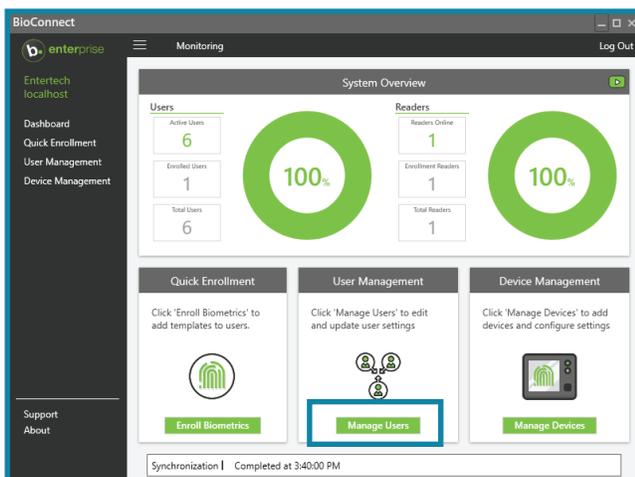


10. Once the device is configured, **click** on the Save button.

## Configuring Users on BioConnect

To add login information for BioConnect to an administrator or an operator, open User Management. User Management is also used for adding credential information.

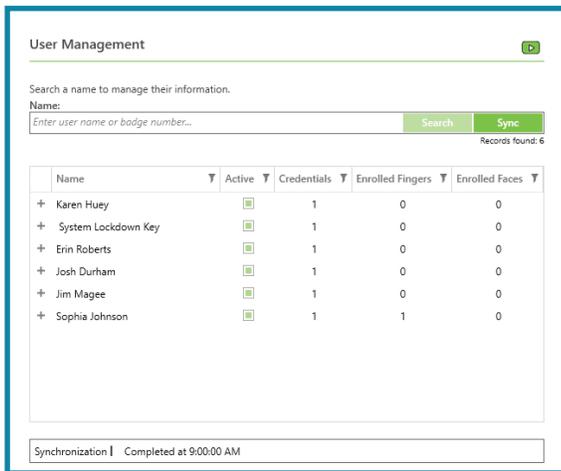
1. Once the device is configured, **select** the Manage Users button.



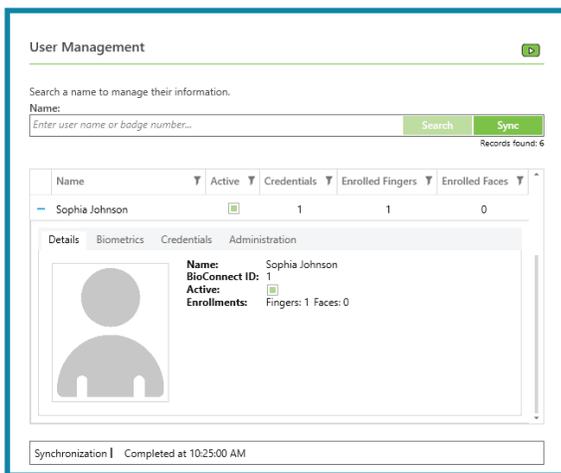
2. **Type** a name in the Name: text field.

OR

**Select** a name from the table.

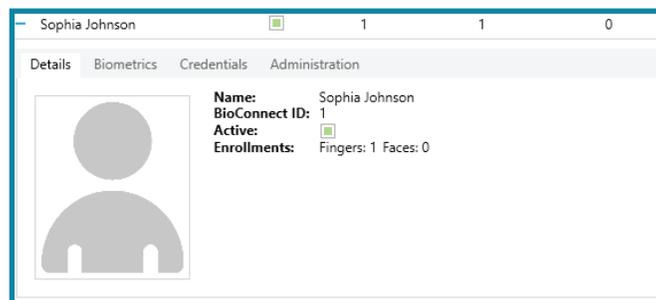


3. **Click** on the "+" icon to open the credential information.



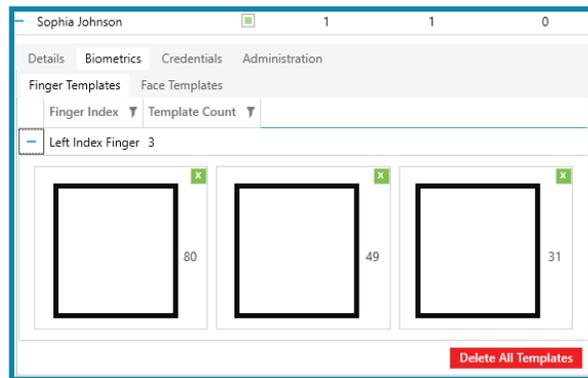
## Details

The Details tab shows current credential information that includes active users and how many enrollments a user's profile contains. An Active credential signifies that the credential is active within DNA Fusion.



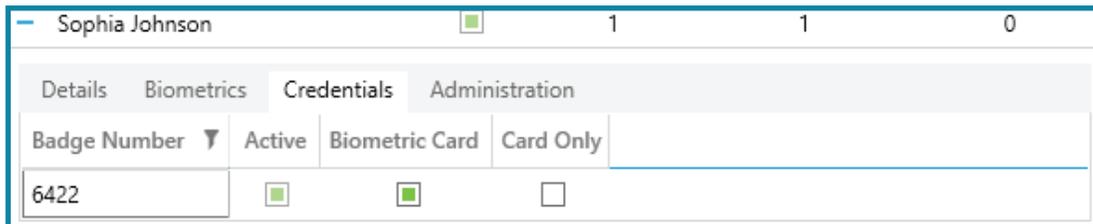
## Biometrics

The Biometrics tab displays finger and face templates that have been recorded. The user can delete finger or facial enrollment templates in this tab.



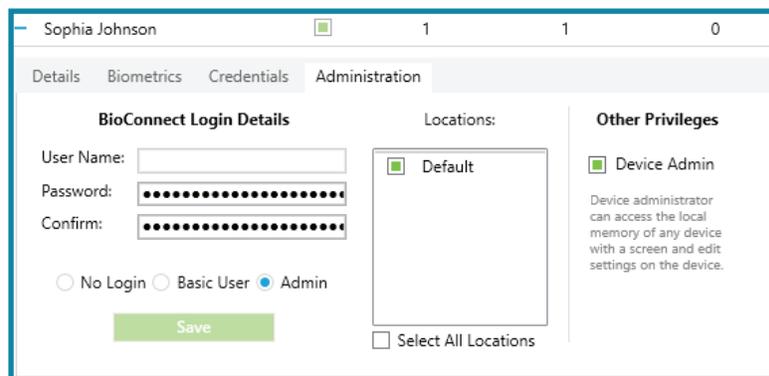
## Credentials

The user can enter badge numbers to active credentials. Selecting the Biometric Card option allows the user to choose which card is sent to DNA Fusion. The Card Only option (if selected) allows the selected card to be accepted without a biometric enrollment.



## Administration

This tab allows the user access to BioConnect Enterprise by adding a username and password or through Active Directory. Users that have login information are allowed to add enrollments for cardholders.



Using Active Directory requires that option to be enabled in the Configuration section of the software.

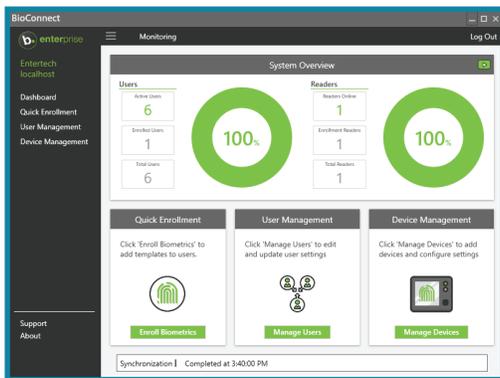
4. Once user's credentials information is edited and updated, **begin** enrolling user biometrics.

### ***Configuring Credentials in BioConnect***

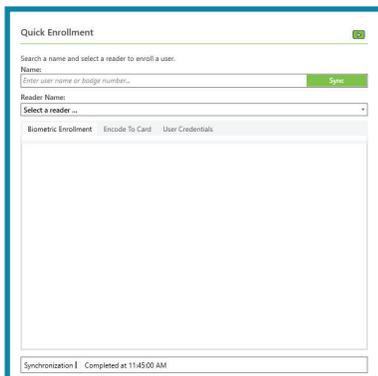
To enroll in finger and facial biometrics, an account that is authorized for enrollments must be logged-in to BioConnect. The "root" level admin cannot be used to enroll biometrics. A reader that is enabled as an Enrollment Device must be used.

To enroll biometric information:

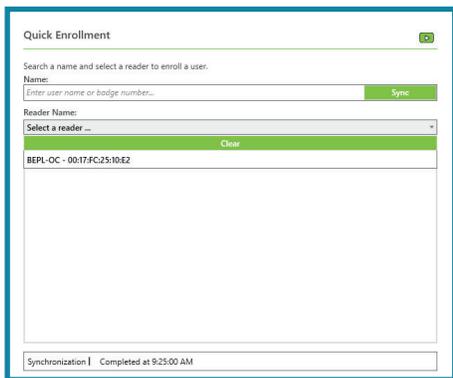
1. **Click** on the Quick Enrollment button.



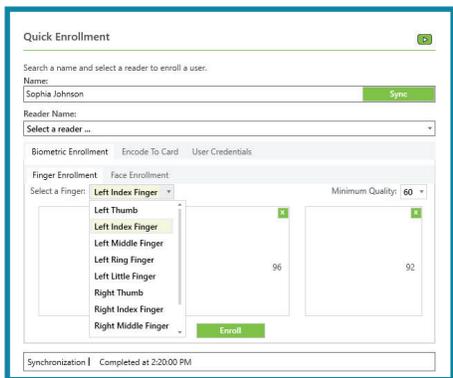
2. In the text field under Name, **type** a user's name.



3. **Select** a reader from the Reader Name drop-down menu.



4. **Select** the desired biometric to enroll.



5. **Click** the Enroll button to add a biometric template.

## Troubleshooting BioConnect

This section covers issues involving connecting the BioConnect hardware to a network. If the desired hardware does not show in the Device Management window in BioConnect, the device may not be configured to the network. This method requires factory resetting the device.

Network resetting the BioEntry Plus:

1. **Remove** power from the BioConnect device.
2. If a BioEntry Plus is being used, **set** DIP switch 2 to the ON position.  
For other readers, check the device's setup guide.

3. **Apply** power to the reader.

The reader's network settings are on default.

Default IP Address: 192.168.0.1

4. **Adjusting** PC Network Settings to match the device's.

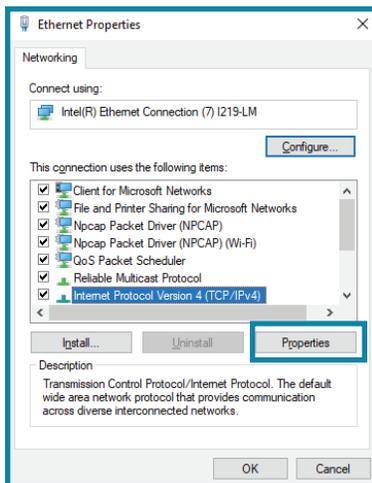
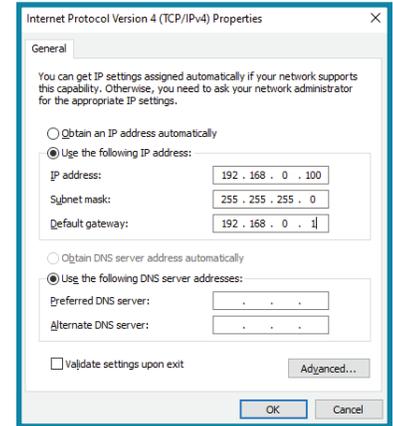
IP Address Range: 192.168.0.xxx

Subnet Mask: 255.255.255.0

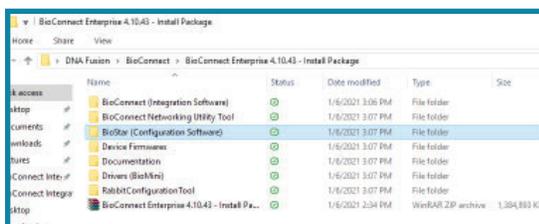
Default Gateway: 192.168.0.1

Where to change the PC Network Settings:

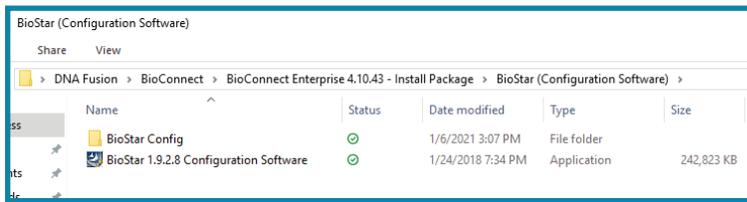
- a. **Open** the computers Control Panel.
- b. **Click** Network and Internet.
- c. **Select** Network and Sharing Center.
- d. **Click** on Change adapter settings.
- e. **Right-click** on Ethernet.
- f. **Select** Properties.
- g. **Locate** Internet Protocol Version 4 (TCP/IPv4).
- h. **Select** Properties.



5. After the changing the network settings, **open** BioStarConfig.exe.
  - a. **Open** the BioConnect installation file.



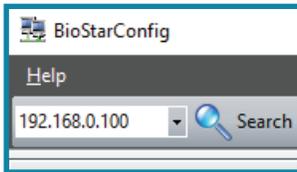
b. **Open** the BioStar (Configuration Software) file.



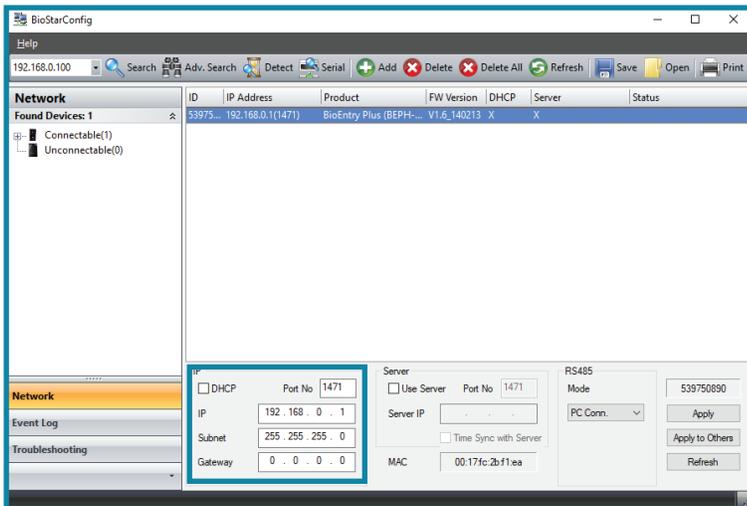
c. **Double-click** on the BioStar application.

BioStar opens.

6. **Click** Search.



7. **Adjust** the network settings of the device to desired configuration.

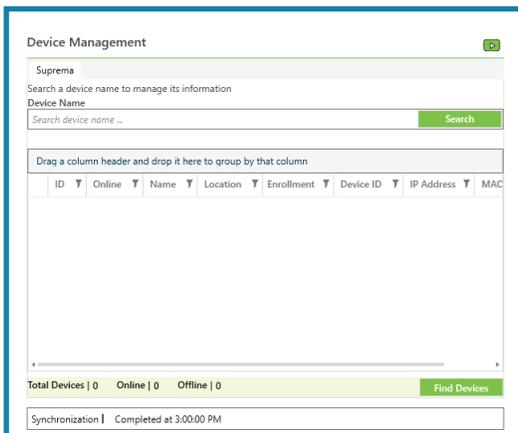


8. **Click** Apply.

9. If required, **set** the DIP Switch of the reader to the original position.

10. **Open** BioConnect and **click** Manage Device.

11. **Click** on the Find Device button.



The BioConnect Networking Tool opens.

## 12. **Search** for devices using UCP Search or TCP Search.

UCP Search: Locates devices on local subnet. The search will result in basic device information.

TCP Search: Locates all devices using the defined network range. The search will result in basic device information.

The screenshot shows the 'Device Search' interface. It has two main sections: 'UDP Search' and 'TCP Search'. The 'UDP Search' section has a description: 'UDP Search will scan entire local network and return all devices found.' and a green 'START SEARCH' button. The 'TCP Search' section has a description: 'TCP Search will allow you to target a specific IP or range of IPs and return all devices found.' and includes input fields for 'Device IP Range', 'Device Type' (a dropdown menu), and 'Device Port', along with a green 'START SEARCH' button. Below these sections is a search bar labeled 'Search Devices List...' and a table with columns: ID, Version, IP, Device Model, and Status. The table currently contains no data and a note: 'Select a search to view results.'

## 13. **Select** Start Search.

This screenshot shows the same 'Device Search' interface as above, but with search results displayed in the table. The table has a search bar 'Search Devices List...' and the following data:

ID	Version	IP	Device Model	Status
539750890	V1	10.0.25.231	BioEntryPlus	Available
539300056	V1	10.0.29.173	BioEntryPlus	Cannot Connect

Once the search is concluded, desired devices are shown in the results. Status determines whether the device can be configurable.

Available: Indicates whether the device is connected to the network successfully. The device's network settings can be configured.

Cannot Connect: Indicates the connection was not successful. The device may be connected to a different server or the IP address is unreachable.

## 14. **Click** on a device.

## 15. **Adjust** the network setting of the device.

For BEP readers, the device port must match the server port.

Port: 8001 (Generation 1 devices).

Port: 51212 (Generation 2 devices).

## 16. **Click** on APPLY CHANGES.

## 17. **Select** Start Search to reload the devices.

The device will display in the Device Management table.

The screenshot shows the 'Device Management' interface for a device named 'Suprema'. It includes a search bar for the device name and a table of device details. The table has a search bar 'Search device name...' and a 'Search' button. Below the search bar is a group-by header: 'Drag a column header and drop it here to group by that column'. The table columns are: ID, Online, Name, Location, Enrollment, Device ID, and IP Ad. The table contains one row with the following data:

ID	Online	Name	Location	Enrollment	Device ID	IP Ad
3	Online	BEPL-OC - 00:17:FC:25:10:E2	Default	Online	539300066	10.0.2

At the bottom of the table, there is a summary: 'Total Devices | 1 Online | 1 Offline | 0' and a 'Find Devices' button. Below the table is a 'Synchronization' status: 'Completed at 11:10:00 AM'.



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Publish Date | October X, 2020

DNA Fusion Version | 7.8 or Greater

Manual Number | SBIG 1.0

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