

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.

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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 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	
	Wiegand GND	
GND	Power GND	

- Wire the Power +12V wire to the Vout terminal. Recommended power requirements: 12V ± 10%, at least 500 mA.
- 2. Wire the Power GND wire to the GND terminal.
- 3. Wire the Wiegand Data 0 wire to the DAT D0 terminal.
- 4. Wire the Wiegand Data 1 wire to the CLK D1 terminal.
- 5. Wire the Wiegand GND wire to the GND terminal.
- 6. **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:

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



6. Add a Description for the door.

7. Click on Advanced.

Hardware Properties: NEW Doo	r		×
Common Properties	Common Propertie	5	
- Advanced - Auto Unlock - Notes	Address Site: Controller: Door Number:	Site 1: OO-TRING-WX-JM2 PPPPP Stuations 1.2: Warehouse - D2S3 ACM 3 Poor Time: Normal V	
	Other Description:	BioEntry Plus	
	Home Page:		
	Point Alarm Prope	rties	
	Alternate Priority:	Security Level: Normal Do Not Load Home Page on Alam	
	Alarm Media File:		
	Alarm Text:		
V Ok			
	Camera:	*None*	
Cancel	Templates Template Name:	*None*	
Help	Description: Application Notes:		

8. Check the Biometric Verification checkbox.

Hardware Properties: NEW Door	×	<
Common Properties Door Objects Advanced Macros Auto Unlock Notes From:	ced Pass Back (APB) Settings m: Do not alter APB location * Delay: 1 min * **None* *	
- Door P B S C D O O	Parameters ecrement use limits Parameters ecrement use limits Parameters ecrement use limits Parameters ecrement use limits Parameters Parameters	
	Jing Based on Deny Violations Jing Based on Deny Violations ot-In-File: IV only Mode Bad PIN: Card & PIN Mode Violations: 0 • attempts ot-In-File: Cypher Mode Biometric failures Reset Time: 0 seconds activate if bad PIN	
Addre	ndary Request To Exit (REX) ess: *None*	
Cancel Seco Hep Seco	Indary Reader ses: *None* * & Edt indary Type: None (Ignore data from reader) *	

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.



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\DioConnect\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).

🍘 About DNA	×
8	anaFusion ang ang ang ang ang ang ang ang ang ang
Isonas Doors:	0/10 ^
Dormakaba Doors:	0/4
EngageIP Doors:	0/4
Handkey II Integration:	Yes
DIOCompt Integration:	Yee
Suprema Integration:	Yes (installed)
worpho integration:	tes
PSIA Permissions:	Yes

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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.

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

The BioConnect software file contents:

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

Installing BioConnect

- 1. After the files are download, **open** the BioConnect Install Package to begin the installation.
- Agree to BioConnect's licensing terms and condition.
 Default Path: C:\ Program Files (x86) \ BioConnect.

bioconnect.
CliProgram Files (860)BioConnects
You must agree to the Licenses terms and conditions before you can install BioConnect.
I agree to the License terms and conditions.
INSTALL

- 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.

bio conr	nect.
Total space required on drive:	787 MB
Space available on drive:	276 GB

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

Erlang OTP 22 Setup		-		×
Choose Components Choose which features of Erlang	OTP 22 you want to install.			P
Check the components you want install. Click Next to continue.	to install and uncheck the component	ents you don	't want t	0
Select components to install:	Microsoft DLL's (present) J-V Erlang V Development V Associations V Erlang Documentation	Description Position y over a coi see its de	our mou mponent scription	se : to :,
Space required: 315.4MB				
Nullsoft Install System v2.46 ———		Vext >	Car	ncel

 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

钃 Erlang OTP 22 Setup	-		×
Choose Install Location Choose the folder in which to install Erlang OTP 22.			P
Setup will install Erlang OTP 22 in the following folder. To install in a d Browse and select another folder. Click Next to continue.	ifferent fol	der, dick	
Destination Folder C:\Program Files\erl10.4	Bro	wse	
Space required: 315.4MB Space available: 288.5GB			
Nullsoft Install System v2.46	ext >	Car	ncel

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.

📙 RabbitMQ Server 3.7.16 Setup —		\times
Installation Complete Setup was completed successfully.		Ь
Completed		
Show details		
Nullsoft Install System v2.51-1+b1	Can	cel

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.



4. Once the BioConnect Networking Tool is downloaded, click Finish.

x
bioconnect.
BioConnect has been successfully installed.
You must still run Setup Assistant before you can use your new installation.

BioConnect Server Setup Assistant

To setup the BioConnect server:

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

Setup Assistant	_ 0 :
1. Welcome 2. Version Updates 3. RinConnect Lineme Setur.	Welcome to the BioConnect Setup Assistant
4. Service Credentials 5. Installation Type 6. Database Configuration	This will guide you through the necessary steps to configure your new identity management system.
7. System Configuration 8. Integration Connections 9. Service Port Configuration 10. Advanced Configuration	Please click Next to begin.
11. System Startup 12. Finish	
Watch Installation Video	< Back Next > Cancel

3. Click Next.



4. Click Next.

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

Setup Assistant		_ 0 ×
Weicome Z. Version Updates BioConnect License Setup Service Credentials Instalation Tune	Online ActiveSon	License Setup Requires a valid activation code and internet connection.
6. Database Configuration 7. System Configuration 8. Integration Connections 9. Service Port Configuration	Offine Activation	Requires a valid binary loanse file.
10. Advanced Configuration 11. System Startup 12. Finish	Tral	-Select this option if you with to run BioConnect in trial mode.
3 Watch Installation Video		< Back Next + Cancel

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.

1. Vielcome 2. Version Updanez 5. BioConnect Liszenet Schup 4. Service Credentials	Deline Garwar Activation Press are in SoConnect Loanse activition ID and the quantity to activitie in a Software to certificat	he felds becve, Dick
5 installation Type	Biography automations (2) formula: 1111-2222-3330-44040-5559-46880-7777-88880	
6 Database Configuration		Unice Gueran
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	de Connect for Lange for not per initializat	
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6. **Enter** the desired Windows Credential. OR

Click on Use Local System.

Setup Assistant				_ D ×
Watcome Westion Updates Westion Updates BioConnect License Satup 4. Service Condensitia Sintanairan Type Distabase Configuration Distributes Configuration More Data Part Configuration More Part Configuration System Startup T2 Frich	Flease enter the windows cruder you are using Windows Authors windows account ward for carro This account must be listed in th Logist Paspword Click here to use the default Loc	Service Crea nials that you w cation to come cicions. # Administration Dawate	tentials and to use to run the to the 500 defab s group on the local (<i>UserNone</i>) and to run the service (the num the service)	e BioConnect annions. If anne, this will be the lanves. Logis S e Local System
Watch Installation Video			< Back 1.	int • Cancel

- 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.

Setup Assistant		_ D ×
Setup Assistant 1. Welcome 2. Vesion Updates 3. BioConneat Learne Satup 4. Service Credentals 5. Installation Type 6. Database Configuration 7. System Configuration 8. Integration Connections 9. Service Pact Configuration 18. Advanced Configuration 11. System Startup 12. Fresh	Cabinet Settings Cabinet Shield Advanced Enrollmant: Finger Template Type Card ID Byte Orden Wiegand Pulse Interval Update Device Backgroundl Active Directory: Before enabling Active Direct bein End.annaet.	System Configuration System Configuration Suproma Suproma Suproma Suproma Suproma Supromation Suproma
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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.

Setup Assistant		×
Welcome Wersion Updates Wersion Updates Service Credentials Service Credentials Service Configuration Otatabase Configuration Service Port Configuration Service Port Configuration 1. System Startup Iz. Finish	Connection to OpenOptions Database Connection (location of the DNA Fusion database): Enter the following information to locate an existing database. Server name: Database: DNAFusion Authentication: Login: Password: Text Database	
Watch Installation Video	< Back Next > Cancel	

Connection to OpenOptions	×
Database has been configured. Select Next to co	ontinue
	ок

- 14. Click on the Test Database button.
- 15. Click OK and click Next to configure service ports.
- If needed, configure desired ports or use the default ports. Ensure that the those ports are open.

1. Welcome 2. Version Updates 3. BioConnect License Setup 4. Service Credentials	Edit TCP ports for Below is a list of ports that are required to run the Bil	services oConnect server. Oick 'Save' to check if
5. Initialiation Type 6. Database Configuration 7. System Configuration	Default port values can be edited if there is a conflict Service TCP ports:	
8. Integration Connections 9. Service Port Configuration 10. Advanced Configuration 11. Syntam Startup 12. Finish	Loger Service License Service BioMatch Service Users Service Derices Service BioCommet Client UI Service Suprema Gan 1	8098 8142 8140 8141 8136 8137 8139 8139 8139 51212
		lan

17. Click Next.

18. If needed, **adjust** the server configuration

Setup Assistant				_ O X
1. Welcome 2. Version Updates		Advanced	Configuration	
3. BipConnect License Setup 4. Service Credentials	RabbitMQ Path	C/\Program Files\R	abbitMQ Server\rai	bbitmqgerver-3.7.1@sbin
5. Installation Type	Server Address:	127.0.0.1	Port	5671
6. Database Configuration 7. System Configuration 8. Integration Connections	Access Control:	Use Defaults BioConnect will creat and password with p	te and use Rabbitly menet values	IQ virtual host, username
9. Service Port Configuration 10. Advanced Configuration 11. System Startup	Virtual Host: Usemame:	BCHost BioConnect	Passworth	******
12. Finish			Test	
	Checking th Done Checking if virtual Adding virt Checking if user 8 in Adding vire Authenticating user Configuring user. Bio Tenting RabbitMQ co RabbitMQ configure 4	connect service we RabbitWQ node stu sat BCHost exists ual host BCHostDone Connect exists r BioConnectDone BioConnectDone SconnectDone SconnectDone SconnectDone SconnectDone	e e on vhoet BCHost. Next to continue	Done J
Watch Installation Video			< Back	Next > Cancel

- 19. 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.

Setup Assistant	- o ×
Welcome Werson Updates Service Credentials Service Configuration Service Configuration System Configuration Service Port Service Port	Finish The BioConnect Setup Assistant has completed! Clicking Finish will close this window and start BioConnect client application
Watch Installation Video	< Back Finish Cancel

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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.

Employee In	fo 🥤 + Employee Info (Page 2) 🔲 ID Badging 🔝 Ca	rd: 6422		
Employee				
Unique ID:	10 Type: NORMAL V			
ìrst:	Sophia			
liddle:	L	😻 Manage		
ast:	Johnson			
-Mail:			E-Mail Employee	
Employmen	•			
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mploymen ocation: epartment: te: tle:	Carrollton	Company: Address: City:	XYZ Logistics v 4579 NW Road Carrollton	₿ Edit

3. Select the Card Tab.

Events/ IEI Johnson, Sophia		P X
🍰 Employee Info 🔮+ Employee Info (Page 2) 🖪 ID Badging 💷 Card: 6422		
B Disadory Encodery En	trace Bidary the Access Tou. rever Estuations DeterTime: 01/1/12 08:57/07 Evert: Access Demet Locked Locket: 1.2.2.2.42/2 Operator: Admin ASSA Credential Format: None ASSA freeding Code: Access Levels Access Levels Access Levels	Date Zamps Created: 0/25/20 11:16:48 Updated: 0/21/21 11:11:150 Printed: NA
Alshinet cord Auto Activete Card Bill Exerce Auto Activete Card Diff Exerce Auto Activete Card DYP (ABS Exerce) Auto Activete Card Dyservice Card Override Card Ø1 free Ard Pass	Caral Caral Caral	
Tinger Codes Code 1: "None" Code 2: "None" Code 4: "None" Code 6: "None"		

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



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

b . enterprise	×
User Name:	
Entertech	
Password:	
Login	
Need help? Contact support	

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.

- BitConnect

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- 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.

JDP Search DF Search will scan mitter local network and return all devices found.			TCP Search will allow you to bright a specific IP or range of IPs and return all devices found. Device IP Range =			
		START SEARCH	Device Type Select		START SEARCH	
			se	sarch Devices List	٩	
			100 Million (1990) (1990) (1990)		AL	

4. Select Start Search.

Device Search				
UDP Search	t return al divicios Round.	START SEARCH	TCP Search TCP Search CP Search will like you't larget a specific IP or surger of the and material Convex IP Range Convex Type Search Convex Type Search Convex Type Search Convex Searc	s at denotes found
			Search Devices List	٩
ID	Version	IP	Device Model	Status
539750890	V1	10.0.25.231	BioEntryPtus	Available
539300066	VI	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.

- 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.

Su	prem ch a c	a devie	e name t	o m	anage its information							
Sea	ice Na arch d	evic	e name				_		_	Sea	ırch	h
Dr	ag a	colu	mn heade	er ar	id drop it here to group by the	et column						
	ID	Ŧ	Online	T	Name 7	Location	Ŧ	Enrollment	Ŧ	Device ID	Ŧ	IP Ad
+	3				BEPL-OC - 00:17:FC:25:10:E2	Default				539300066		10.0.2
-												•

9. Edit the device.

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

Suprema							
earch a device name to mar Device Name	age its information						
Search device name						Search	1
Drag a column header and	drop it here to group by	/ tha	it column				
ID 🖲 Online 🖲	Name	Ŧ	Location	Ŧ	Enrollment T	Device ID 🔻	IP
Name:	BEPL-OC - 00:17:FC:25:	10:E	2				
Location:	Default						
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	Custom						
	Card + Biometric & Bion	netri	c Only		Save	Dele	te
	Card + Biometric						
4	Card Only					_	*
otal Devices 1 Online	Biometric Only					Find Dev	ices

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.

- 7		3EPL-OC - 00:17:	FC:25:10:E	2 Default			539300066	10.0.2
Details	General Informa	ition Network	. Details	Wiegand Det	tails	Device Men	nory	
Name: Locatio Enrolln Advan Online Device	on: nent Reader: ced Enrollment: : ID:	BEPL-OC - 00:1 Default	7:FC:25:10	D:E2				
Operat	ion Mode:	Biometric Only			*			
		Restart	Up	date Firmware		Save	Del	lete

General Information

This tab displays information about the reader.



Network Details

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

- 7 🔳	BEPL-OC - 00	:17:FC:25:10:6	E2 Default		539300066	10
Details General Inform	ation Netw	vork Details	Wiegand Details	Device Mem	ory	
Enabled						
IP Address:	10.0.29.173			DHCP:		
Gateway:	10.0.31.253			MAC Address	: 00:17:FC:25:10):E2
Subnet:	255.255.224	.0				
Server URL:						
Server IP Address:	10.0.28.250					
Server Port:	8001					

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

- 7	BEPL-C	DC - 00:17:FC:25:10:E	2 Default		539300066	10.0.2
Details Gener	al Information	Network Details	Wiegand Details	Device Me	mory	
Facility Code:	þ					
Card Format:	26 Bit Standard					
Details General Information Network Facility Code: p Card Format: 26 Bit Standard Card Offset: 0 Fail Code: Restart						
Fail Code:		Wie	gand Card Bypass:			
	i i	Restart Up	date Firmware	Save	Del	ete

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.

- 7	7 BEPL-OC - 00:17:FC:25:10:E2 Default				539300066	10
Details	General Information	ils Wiegand Detai	s Device N	lemory		
Ensures on the d by re-sy device U	all user data stored levice is up-to-date ncing them to the ser Re-Sync	Erase all data st device. Networ operation mod erased Factory F	tored on the k settings and es will be Reset			
		Restart	Update Firmware	Save	D	elete

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.

ear lam	ch a name to manage their inform e:	iation.						
Ente	er user name or badge number					Search	h Sync	ad:
							100103100	10.
	Name	T Act	ive 🔻	Credentials T	Enrolled Fi	ngers 🔻	Enrolled Faces	Ŧ
÷	Karen Huey			1	C)	0	
÷	System Lockdown Key			1	c)	0	
÷	Erin Roberts			1	C	1	0	
÷	Josh Durham			1	C)	0	
÷	Jim Magee			1	C)	0	
÷	Sophia Johnson			1	1		0	

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

earch a name to manage their ir	nforma	ation.					
ame:							
Enter user name or badge numbe	er					rch S	ync
						Recon	ds found
Name	Ţ	Active T	Credentials T	Enrolled Finger	s T	Enrolled Face	s T
 Sophia Johnson 			1	1		0	
	Acti	ve: Ilments:	Fingers: 1 Face:	5: 0			

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.

 Sophia Johnson 		1	1	0
Details Biometrics C	redentials Adminis	tration		
	Name: BioConnect ID: Active: Enrollments:	Sophia Johnson 1 Fingers: 1 Faces	:0	

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.

 Sophia Johnson 		1	1	0
Details Biometrics	Credentials Adm	inistration		
Finger Templates F	ace Templates			
Finger Index 🔻	Template Count 🏾 🔻			
– Left Index Finger	3			
	80	45		31
			De	elete All Templates

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.

 Sophia Johnson 				1 1	0
Details Biometri	cs Cre	dentials Admin	nistration		
Badge Number 🏾 🌹	Active	Biometric Card	Card Only		
6422					

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.

– Sophia John	son		1	1	0
Details Bior	metrics Crede	entials Admin	istration		
BioC	onnect Login D	etails	Locations:	Oth	er Privileges
User Name: Password: Confirm: No Log	in O Basic User	• • Admin	Default Select All Locat	Device can ac memo with a setting	evice Admin e administrator cess the local ry of any device screen and edit gs on the device.

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.

Sanch a mean of adult a reader to rould a user. Server and a user. Server and a user of the server o					
ame: Series are name or badge number Syne Badder Name: Saket a reader	earch a name and selec	t a reader to enroll a	a user.		
derr une nach de bedge number	lame:				_
Badele Kame	Enter user name or badg	ie number		Sync	_
Select a reader	leader Name:				
Benetik Erothmert Excels To Card User Credentials	Select a reader				
	Piometric Excellment	Encode To Card	Hear Conductible		

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

Search a name and select a reader to enroll a user. Name:	
Enter user name or badge number	Sync
Reader Name:	
Select a reader	•
Clear	
BEPL-OC - 00:17:FC:25:10:E2	

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

Search a name an	d select a reader to enroll a user		
Name:			
Sophia Johnson			Sync
Reader Name:			
Select a reader			*
Biometric Enroll Finger Enrollme	ment Encode To Card Use nt Face Enrollment	r Credentials	
Select a Finger:	Left Index Finger *		Minimum Quality: 60 *
	Left Thumb	×	×
	Left Index Finger		
	Left Middle Finger		
	Left Ring Finger	96	02
	Left Little Finger		
	Right Thumb		
	Right Index Finger		
	Di Li Mala di Ci		

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 reseting the device.

Network resetting the BioEntry Plus:

- 1. **Remove** power from the BioConnect device.
- If a BioEntry Plus is being used, set DIP switch 2 to the ON position.
 For other readers, check the device's setup guide.
- Apply power to the reader.
 The reader's network settings are on default.

Default IP Address: 192.168.0.1

- 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.

	P MIN	Fusion > BioConnect > BioConnect Enterpris	# 4.10.43 - Ir	etall Package		
		Name	Status	Date modified	Type	Size
ek access		BioConnect (Integration Software)	0	1/6/2021 3:06 PM	File folder	
sktop	*	BioConnect Networking Utility Tool	0	1/6/2021 3:07 PM	File folder	
cuments	#	BioStar (Configuration Software)	0	1/6/2021 3:07 PM	File folder	
wnloads	#	Device Firmwares	0	1/6/2021 3:07 PM	File folder	
tures	#	Documentation	Θ	1/6/2021 3:07 PM	File folder	
Connect In	te #	Drivers (BioMini)	Ø	1/6/2021 3:07 PM	File folder	
Connect in	teora	RabbitConfigurationTool	0	1/6/2021 3:07 PM	File folder	
- litera		BioConnect Enterprise 4.10.43 - Install Pa	0	1/6/2021 2:34 PM	WinRAR ZIP archive	1,384,808 KB

Internet Protocol Version 4 (TCP/IPv4)	Properties X
General	
You can get IP settings assigned auton this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator
Obtain an IP address automatical	у
Use the following IP address:	
IP address:	192.168.0.100
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
Obtain DNS server address autom	atically
Use the following DNS server add	resses:
Preferred DNS server:	
Alternate DNS server:	· · ·
Validate settings upon exit	Advanced
	OK Cancel

b. Open the BioStar (Configuration Sofware) file.



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

BioStar opens.

6. Click Search.



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

3 BioStarConfig				-	- 🗆 X
<u>H</u> elp					
192.168.0.100 🔹 🔍 Search 🙀	Adv. Search 🔬 Detect	😤 Serial 💽 Add 🔀	Delete 🔀 Delete All 🥃	🕽 Refresh 🛛 拱 Save 📕	Open Print
Network	ID IP Address	Product	FW Version DHCP S	erver Statu:	5
Found Devices: 1	53975 192.168.0.1(1471)	BioEntry Plus (BEPH	. V1.6_140213 X X		
p−∎ Connectable(1) ⊢∎ Unconnectable(0)					
 Network	DHCP Port	No 1471 Server	Server Port No 1471	RS485 Mode	539750890
Event Log	IP 192.168	. 0 . 1 Server I		PC Conn. V	Apply
Troubleshooting	Subnet 255 . 255	. 255 . 0	Time Sync with Server	r	Apply to Others
•	Gateway 0.0	. 0 . 0 MAC	00:17fc:2bf1:ea		Refresh

- 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.

iear	prem :h a c	a devid	e name t	o mi	anage its	info	ormation							
Sea	ce Na rch d	ame evice	e name										Searc	h
De						h								
Dia	ID	T	Online	T an	Name	T	Location	T T	Enrollment	Ţ	Device ID	Ţ	IP Address	MA

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.

Device Search					
UDP Search UDP Search uit can entre local	network and return all devices found.	START SEARCH	TCP Search will allow you to larget a a TCP Search will allow you for larget a a Device IP Range Device Prote Device Port	ppolitic IP or range of IPs and return all devices for 	und
ID	Version	IP Select a sear	Device Mod	Search Devices List	Q. Status

13. Select Start Search.

Device Search				
UDP Search UDP Search will scan entire local network an	UDP Search UOP Search will scan entire local network and refum all devices found.		TCP Search TCP Search III allow you is target a specific IP or range of IPs and ref Dence IP range	um al évoices found.
			Search Devices List	٩
ID	Version	IP	Device Model	Status
539750890	V1	10.0.25.231	BioEntryPlus	Available
539300066	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.

Su	prem	a											
bear	ch a c	devid	ce name t	o mi	anage its inform	ation							
Sea	ce Na rch d	ame evice	e name	2							Sea	arch	25
											1		
Dr	ag a	colu	mn heade	er an	d drop it here to	group by the	at column						
	ID	Ŧ	Online	T	Name	٣	Location	Ŧ	Enrollment	Ŧ	Device ID	Ŧ	IP A
+	3				BEPL-OC - 00:1	7:FC:25:10:E2	Default				539300066		10.0.2
	_	_		_				_		-			•
					1. 0/0						1000		



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