SUPREMA CONFIGURATION GUIDE

Brivo Onair 09/06/2017





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1. SUPREMA BIOSTAR CONFIGURATION

1.1 OVERVIEW

The Suprema biometric readers communicate with a Brivo access control system after being configured via the Suprema BioStar ACM software. The BioStar must first be installed and configured on a PC. The reader can then be configured and will be able to communicate via Wiegand to a Brivo controller, thus creating a "two database" system. This document will explain the steps needed to configure the BioStar software to add a device that will communicate to a Brivo controller, and to transfer a user to the device. The figure below illustrates the Brivo Onair – Suprema topology.



All wire harnesses necessary are included when purchasing a Suprema reader from Brivo. Suprema 12VDC power supplies for the readers are sold separately.

Be sure to have the following required hardware and software components supplied:

- Suprema fingerprint reader
- Suprema BioMini enrollment scanner
- Brivo controller.
- BioStar ACM admin client software.
- BioStar ACM admin server software.

NOTE: The following includes installation steps for the Suprema BioStar software and the initial programming of the Suprema readers via the local network. The reader comes ready for programming; though prior to conducting the following steps you must power down the Suprema reader and connect it to a hub or switch to create a local private network (do not directly connect to the programming computer).

1.2 BIOSTAR SOFTWARE INSTALLATION AND CONFIGURATION

A. OVERVIEW

BioStar is a distributed intelligence system. Suprema's access control devices can be connected via TCP/IP or connected directly via serial connections. User information, access rules, and other data can be distributed to each device to speed up authorization time and provide continual operation even when the connection to the network is lost.

- B. WORKSTATION SYSTEM REQUIREMENTS
 - 1. BioStar supports the following operating systems:
 - a. Windows 7.
 - b. Windows Server 2008 R2.
 - c. Windows Vista.
 - d. Windows XP, Service Pack 1 or later.
 - e. Windows 2003.
 - f. Windows 2000, Service Pack 4 or later.
 - 2. The minimum systems requirement for installing and operating the BioStar software include the following:
 - a. CPU Intel Pentium or similar processor, capable of processing speeds of 1GHz or faster.
 - b. RAM 512MB.
 - c. HDD 5GB.
 - 3. However, Suprema recommends the following hardware configuration for optimal performance:
 - a. CPU Intel Pentium Dual Core or similar processor, capable of processing speeds of 2GHz or faster.
 - b. RAM 1GB for Windows.
- C. INSTALLATION

a.

- Contact Brivo CustomerCare for a link to download the BioStar software.
 - i. 866-274-8648 option 1
 - ii. customercare@brivo.com

1.3 START THE SERVER

A. On your desktop, you should find a green icon labeled **BioStar Server Config**.



- B. Right click on this icon and select **Run as Administrator**. (For Windows XP or older systems you can ignore this and open application).
- C. When the Server Config program starts for the first time, an error message will pop-up. Click **OK**.



D. Click Start in the upper right hand corner of the window.

W NOTE: If the service did not start, please ensure that you are running the application as administrator (Step 2) or skip to **If The Server Did Not Start**, section 1.4.

			Stopped	Start
onnect	ion			
	TCP Port	1480	Thread Count 32	Client List .
atabas	e			
	Database Type	SQL Server		•
SQL	Database Name	BioStar		Set Name
	C Server Authentic	ation	Windows Authentie	cation
	Database Server	localhost\bsserver	Port -	1433
	ID		Password	un
	Max Connection	1	L	
SL —				
Sa	OpenSSL Path	C:\OpenSSL\bin\open	ssl.exe	Browse
	Pass Phrase	*****		Change

E. An IP address will now appear in the status bar. Click **OK** at the bottom of the page.

	BioStar Server	V1.61 (192.168.102.1	21) Running	Stop
onned	lion			
0	TCP Port	1480	Thread Count 32	Client List
atabas	e			
	Database Type	SQL Server		*
SQL	Database Name	BioStar		Set Name
	$m{c}$ ServerAuthentic	ition	Windows Authent	ication
	Database Server	localhost\bsserver	Port	1433
	ID		Password	
	Max Connection	1		
SL				
50	OpenSSL Path	C:\OpenSSL\bin\open	ssl.exe	Browse
	Pass Phrase	******		Change

F. If the service started, close the BioStar Server Config window.

1.4 IF THE SERVER DID NOT START

- A. Open Windows Services (Control Panel > Administrative Tools > Services).
- B. Right click BioStar Server, click Properties.
- C. Set the Startup Type to be Automatic.
- D. Click Start.

E. Close all windows.

1.5 START THE BIOSTAR CLIENT

A. Now that the Server has been configured, click on the BioStar Client icon located on your desktop.



B. A login screen will appear and say Connected to Server just above the login button. Click Server Setting:

User ID	
Declalord	
Password	
	onnected to server

C. Enter 127.0.0.1 as the Server IP (Or the PC's current IP Address running BioStar Server).

erver IP	127	8	0	0	0	8	1
Server Port	1		3	1480	8		
	Connec	ted	to se	rver			

D. If you are unsure, confirm the Server IP matches the IP address in the Server Config program. Click Save.

BioStar S	ervei Config			Vi Vi		Let Connect Ser	Wet	
Status						Server IP	192 . 168 . 102	- 12
	BioStar Server	V1.61 (192.168.102.121)	Runnin	g Stop		Server Port	1480	
Cennect	ion							
10	TCP Port	1480 1	Thread Count 33	Client List	_	Test	Save	ncel
Databas	•							
EL.	Database Type	SQL Server						
Lan.	Database Name	BioStar		Get/Vario	· 1			
	← ServerAuther@c	etion d	🕈 Windows Autos	mBication				
	Database Server	loca/hostbaserver p	Port	1433				
	ID	1	Password					
	Max Connection	1						
SSL								
10	OpenSSL Path	C10penSSLibiniopenssLer	xe	Ernette				
-	Pass Phrase			Charge				
-								

- E. Click Test and ensure that Connected To Server is displayed.
- F. Click Save.
- G. The login screen will prompt for a username and new password. This will create the first administrator of the system. Fill in the required information then click **OK**.

orivo.

Admin ID	
Password	
Confirm	
Admin Level	Administrator 👻

H. The BioStar home screen will now pop-up.

User	User							
⊟ 💆 User — 💆 New User(1)	User ID	Name New User(1)	Department	Email	Telephone	Start Date	Expire Date	Admin Leve Normal Use
Task								
Add New User Sport User Import User Import User Transfer All Users to Device Manage Users in Device								
Details								
Fotal : J Selected : User (1)								
2 User								
Doors								
C Access Control								
Monitoring								
Device								
Time and Attendance								

1.6 CONFIGURING DEVICE NETWORK SETTINGS

- A. BIOENTRY PLUS/BIOENTRY W NETWORK SETTINGS (USING A DHCP-SUPPORTED LAN RECOMMENDED):
 - 1. Connect the BioEntry Plus/BioEntry W to your LAN via Ethernet.
 - 2. Ensure that the PC running BioStar is on the same subnet as the reader.
 - 3. In BioStar, click the **Device** menu tab.
 - 4. Click Add Device (located under Tasks on left side).

Task	
🔚 Add Device	
👔 Firmware Upgrade	
Details	
Total : 1	
Selected : Device	
🕵 User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	»

5. Select LAN and click Next.

Search and Add Device	SMR.	
	Select one of way to search device to be edited.	
	@ LAN	
	(C) Send	
	🗇 U98 Device	
	🕐 Virtual USB Device	
	< Badi Next	Cancel

6. Check the box for UDP and click Next.

Search and Add Device	and the second se
	This is to show advanced search.
192 - 168 - 102 - 192 - 168 - 102 -	1 × [255] Part [BST/DST/AST/AST2/FST +] [1470]
	< Back Next > Cancel

7. Wait for the device to be found and then click **Next** (if the device was not found, ensure that the reader is on the same subnet as BioStar, or repeat **Step 6** choosing **TCP** to search for a range of IP addresses).

erkce 10 17 Type PARe 152,103,1,720 Sociation 17 152,103,1,720 Sociation 17 DHCP @Use ② Not U DP Address 192 168 1 Gateway Subret - Part 2470	
D ² Address 192 150 1 Gateway - - - - Subnet - - - - Part 2470 - - -	Use
Gatewary Subnet Part. 2470	. 220
Subnet Part 1470	
Port 1470	
E Server 192 . 168 . 102	. 121
Server Port 1480	
100% Time Sync with Serve	ver
rvice(s) found. System Info Refresh Mo	locify

8. Click the checkbox next to the device, then click Add.

	Select the device to I	be added and press [Add] but	tan to finish.	
Device ID	P	Туре		
17088	192.168.1.220	BioStation T2		
				Add

- 9. A dialogue box **1 Device Added** should appear.
- 10. Click **OK** and then **Finish**.
- B. BIOENTRY PLUS/BIOENTRY W NETWORK SETTINGS (DIRECT CONNECTION TO PC):
 - 1. Statically set your PC running BioStar to the following address:
 - a. IP Address: 192.168.0.10
 - b. Gateway: **192.168.0.1**
 - c. Subnet: 255.255.255.0
 - 2. The following steps refer to the dip switches located on the back of the BioEntry Plus models (for BioEntry W models, please use the RESET soft button located on the back of the device):
 - a. Turn off BioEntry Plus power (BioEntry W models, please skip this step).
 - Switch DIP SW #2 to the ON position Fig.1 (BioEntry W models, please press and hold the RESET button for 5 seconds).



- c. Power up the BioEntry Plus unit (BioEntry W models, please skip this step).
- d. The device IP address has now been reset to **192.168.0.1**
- 3. In BioStar, click the **Device** menu tab.
- 4. Click Add Device (Located under Tasks on the left side).

Task	
Add Device	
🙀 Firmware Upgrade	
Details	
Total : 1	
Selected : Device	
👷 User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	»

5. Select LAN and click Next.

earch and Add Device		(Sector)	along the second second	
	Select one of way to se	arch device to be a	ided.	
	🖲 LAN			
	🐑 Serial			
	C USB Device			
	🕐 Wrtual USB	Device		

- 6. Check the box for TCP.
- 7. Enter **192.168.0.0** as the starting range.
- 8. Enter **2** as the ending range.
- 9. Click Next.

			and the second	-	
	This is to show	advanced search.			
102 192 - 165 - 102 - 1	~ 235 Po	1 BST/DST/XST/	IST2/PST	- 1470	

- 10. Click on the device once it is found and modify the **IP Address, Gateway**, and **Subnet** to the following settings:
 - a. IP Address: 192.168.0.15
 - b. Gateway: 192.168.0.1
 - c. Subnet: 255.255.255.0

	configure setti If you	on the right after want to add BioStar	select the specific dev Server, check [Server	ice in the list. Lise]
Device ID	19	Type	Change Network	
17068	192.168-1.220	BeStation 12	DHCP	🙆 Use 👘 Not Use
No.			IP Address	192 . 168 . 1 . 220
			Gateway	· · · · ·
			Subnet	1
			Port	1470
			T Server	192 . 168 . 102 . 121
* [T		Server Port	1480
	100%			Time Sync with Server
t device(s) fn	und.		System Info	Refresh Modify



NOTE: Do not enable **Server** or modify the ports.

- 11. Click Modify and confirm changes.
- 12. Disconnect power from the device (BioEntry W models can skip this step).
- 13. On the BioEntry Plus, move DIP SW #2 back to the OFF position Fig.2 (BioEntry W models can skip this step).



- 14. Power up the BioEntry Plus (BioEntry W models can skip this step).
- 15. In BioStar, click the **Device** menu tab.
- 16. Click Add Device (Located under Tasks on the left side).
- 17. Select LAN and click Next.

Search and Add Device		100	And in case of some	
	Select one of way to s	eerch device to be	added.	
	😻 LAN			
	(1) Serial			
	🛞 USB Devi	ice.		
	🖑 Virtual US	SB Device		
			< Bark Next >	Cancel

- 18. Check the box for **TCP**.
- 19. Enter **192.168.0.14** as the starting range.
- 20. Enter **16** as the ending range.
- 21. Click Next.

	This is to show	advanced search		
192 - 168 - 102 - 1	≈ 255 Pi	et BST/DST/AS	T/BST2/PST	¥ 1470
			< Back	Next > Can

22. When the device is found, click Next.

	configure settin IF you r	In order to change g on the right after want to add BioStar	network information, r select the specific devi r Server, check [Server	ke in the list. Use]	
0		T	Change Network		
Device 10	LP	Type	CHCP	🖲 Use	🗇 Not Use
*	TF		IP Address Eateway Subnet Port E Server Server Port	192 . 1	68 . 1 . 220 1470 68 . 102 . 121 1680
	1000		and the part of the	Time Svr	no with Server
L device(s) fo	und.		System Info	Refresh	Modify

23. Click the checkbox next to the device, then click Add.

	Select the device to I	se added and press [Add] but	ton to finish.	
Device ID	р	Туре		
17088	192, 168, 1, 220	BoStation T2		
			1	Add

- 24. A dialogue box displaying **1 Device Added** should appear.
- 25. Click OK and then Finish.
- C. BIOSTATION T2 NETWORK SETTINGS (using a DHCP-Supported LAN):



- 1. Connect the BioStation T2 to your LAN via Ethernet.
- Ensure that the PC running BioStar is on the same subnet as the BioStation T2.
 In BioStar, click the **Device** menu tab.
- 4. Click Add Device (located under Tasks on left side).

🔚 Add Device	
👔 Firmware Upgrade	
Details	
Total : 1	
Selected : Device	
User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	*

5. Select LAN and click Next.

Search and Add Device	. SAMIN	100 X 100
.5	elect one of way to search device to be added.	
	ê lan	
	© Seriel	
	🗇 US8 Device	
	O Virtual US8 Device	
	< Back Next	:> Cancel

6. Check the box for UDP and click Next.

	This is to show	advanced search.		
10P				1 Common 1
192 - 106 - 102 - 1	w 200 P	ni berhearikar	(0512)°51	* [14/0

7. Wait for the device to be found and then click **Next** (if the device was not found, ensure that the BioStation T2 is on the same subnet as BioStar, or repeat **Step 6** choosing **TCP** to search for a range of IP addresses).

	configure settin If you	In order to change ig on the right after want to add BioStar	network information, select the specific devi Server, check [Server	ce in the list. Use]
Device 1D	р	Type	Change Network	
17988	292.168.1.229	BoStetion T2	DHCP IP Address Gateway Subnet Port Server	192 168 1 220 192 168 1 220 1470 192 168 102 121
1 device(s) fo	100%		Server Port	1490 Time Sync with Server Refresh Modify
l device(s) fo	und.		System Unfo	Refresh Modify

8. Click the checkbox next to the device, and click the Add button.

arch and Add Device		- Tana	
	Select the device to I	e added and press [Add] butts	on to finish.
Device ID	P	Туре	
17088	192.168.1.220	BioStation T2	
1			
			Add
		6	<badi cancel<="" finish="" td=""></badi>
		-1470	American I.

- 9. A dialogue box displaying **1 Device Added** should appear.
- 10. Click OK and then Finish.
- D. BIOSTATION T2 NETWORK SETTINGS (Direct Network Connection to PC):
 - 1. Statically set your PC running BioStar to the following address:
 - a. IP Address: 192.168.0.10
 - b. Gateway: 192.168.0.1
 - c. Subnet: **255.255.255.0**
 - 2. On the BioStation T2, click Menu.
 - 3. Click Network.
 - 4. Click **TCP/IP**.
 - 5. Uncheck DHCP and enter the device's IP address to be 192.168.0.15
 - 6. Click the V arrow and enter 255.255.255.0 as the Subnet.
 - 7. In BioStar, click the **Device** menu tab.
 - 8. Click Add Device (located under Tasks on the left side).

Task	
🔚 Add Device	
🚼 Firmware Upgrade	
Details	
Total : 1	
Selected : Device	
🕵 User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	»

9. Select LAN and click Next.

Search and Add Device	Table and on Second Second	L X
	Select one of way to search device to be added.	
	@ LAN	
	🐑 Senal	
	C US8 Device	
	C Virtual US8 Device	
	< Back Next >	Cancel

- 10. Check the box for **TCP**.
- 11. Enter **192.168.0.14** as the starting range.
- 12. Enter **16** as the ending range.
- 13. Click Next.

	This is to show ad	vanced search.		
☐ TCP 192 - 358 - 102 - 3 ⊡UDP	• 255 Port	BST/DST/NST/BST2/FST	* 1400	
		< Back	Next > G	ncel

14. When the device is found, click Next.

	configure settir If you	ig on the right aft want to add BloSt	er select the specific dev ar Server, check [Server	ce in the list. Use]	
Device ID	₽ 19245641.220	Type DicStation T2	Change Network DHCP JP Address	♥ Use ©	NotUse
			Gateway Subnet Port Server		- - 102 - 121
e	10035	•	Server Port	149 Time Sync with	o Server
1 device(s) fo	und.		System Info	Refresh	Modify

15. Click on the checkbox next to the device, then click Add.

Device 1D	₽P	Туре		
27088	192,168,1,220	BioStation T2		
			Add	

16. A dialogue box displaying **1 Device Added** should appear.

- 17. Click **OK** and then **Finish**.
- E. BIOSTATION NETWORK SETTINGS (On Device Setup without BioStar):

IMPORTANT: Setup an administrator password on the reader: On the device, click ESC > OK > Device > Master Password. Enter a secure admin password. Click OK. Press ESC back to the home screen.

• NOTE: This method only works with 26 bit Standard Wiegand with a FC Code of 0. Please use BioStar for any other configurations.

- 1. On the BioStation, press ESC.
- 2. Authenticate using an administrators Finger, PIN, or Card (If not administrator has been set, press the OK button).
- 3. Navigate to Network.
- 4. Navigate to TCP/IP.
- Change DHCP to Not Use and enter the devices IP address to be 192.168.0.15 (press the >arrow to add decimals).
 - a. Enter **192.168.0.1** as the Gateway.
 - b. Enter 255.255.255.0 as the Subnet.
 - c. Press OK.
- 6. Select **TCP**/**IP** again.

- 7. Press F2.
- 8. Select BioStar for Server.
- 9. Enter the Server IP that you will use as the main Biometric Server for BioStar (Press the > fordecimals.
- 10. Enter 8001 under the Port field.
- 11. Select Not Use for SSL.
- 12. Press OK twice.
- F. BIOSTATION NETWORK SETTINGS (Using a DHCP-Supported LAN):
 - 1. Connect the BioStation to your LAN via Ethernet.
 - 2. Ensure that the PC running BioStar is on the same subnet as the BioStation.
 - 3. In BioStar, click the **Device** menu tab.
 - 4. Click Add Device (located under Tasks on left side).

Task	
🔚 Add Device	
👔 Firmware Upgrade	
Details	
Total : 1	
Selected : Device	
🕵 User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	>>

5. Select LAN, and then click Next.



6. Check the box for UDP and click Next.

This is to show advanced search.		
192 - 168 - 102 - 1	~ [255] Porc [857,057,457,8572,857 ♥] [1470]	
	KBack Next>	

 Wait for the device to be found and then click Next (if the device was not found, ensure that the BioStation is on the same subnet as BioStar, or repeat Step 6 choosing TCP to search for a range of IP addresses).

	11 900	Mant to add blost	chance Natural	nast
Device ID	1P	Туре	Charge Network	2000 200000
17008	192.168.1.220	BioStation T2	DHCP	🖲 Use 🕐 Not Use
			IP Address	192 , 168 , 1 , 220
			Gateway	[, 2 3 3])
			Subnet	
			Port	1470
			ElServer	192 . 168 . 182 . 121
< [ш		Server Port	1480
	100%			Time Sync with Server
Longicala) fa	und	_	System Info	Refresh Modify

8. Click the checkbox next to the device, then click Add.

	Select the device to (se added and press [Add] butto	en to finish.
Device ID	IP	Туре	
17088	192, 168, 1, 220	BicStation 72	
			Add

- 9. A dialogue box ${\bf 1}$ Device Added should appear.
- 10. Click **OK** and then **Finish**.

orivo.

- G. BIOSTATION NETWORK SETTINGS (Direct Network Connection to PC):
 - 1. Statically set your PC running BioStar to the following address:
 - a. IP Address: 192.168.0.10
 - b. Gateway: 192.168.0.1
 - c. Subnet: 255.255.255.0
 - 2. On the BioStation, click **ESC**.
 - 3. Authenticate using an administrators Finger, PIN, or Card (if no Administrator password has been set, press the **OK** button).
 - 4. Navigate to Network.
 - 5. Navigate to TCP/IP.
 - Change DHCP to Not Use and enter the devices IP address to be 192.168.0.15 (press the >arrow to add decimals).
 - a. Enter 192.168.0.1 as the Gateway.
 - b. Enter 255.255.255.0 as the Subnet.
 - c. Press OK.
 - 7. In BioStar, click the **Device** menu tab.
 - 8. Click Add Device (located under Tasks on the left side).

Task	
Add Device	
🙀 Firmware Upgrade	
Details	
Total:1	
Selected : Device	
User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	»

9. Select LAN and click Next.

Select one of your to search device to be added	
seeu ore or way to seal of device to be added.	
IAN	
(C) Serial	
() interaction	
C) Decidence	
Virtual USB Device	

- 10. Check the box for **TCP**.
- 11. Enter 192.168.0.14 as the starting range.
- 12. Enter **16** as the ending range.
- 13. Click Next.

n and Add Device	Name of the Owner of Street
	This is to show advanced search.
192 . 168 . 102 . 1	 ₩ [255] Pro: [851;051;051;051;0512;P51 [3470]
	<badt 5="" cancel<="" heat="" td=""></badt>

14. When the device is found, click Next.

Device ID	P	Туре	Change Network	
17088	192.168.1.220	BioStation T2	DHCP	😬 Use 👘 Not Use
			IP Address	192 . 168 . 1 . 220
			Gateway	1 12 11 21
			Subnet	
			Port	1470
			Server	192 , 168 , 102 , 121
*	m		Server Port	1480
	100%			Time Sync with Server
			Sustam Info	Defresh Mythy

15. Check the checkbox next to the device, and click the Add button.

	Select the device to t	be added and press (Add) buth	on to finish.	
Device ID	P	Туре		
2 17068	192, 168, 1, 220	BoStation T2		
-				
				Add
				Add

- 16. A dialogue box **1 Device Added** should appear.
- 17. Click **OK** and then **Finish**.
- H. BIOLITE NET NETWORK SETTINGS (USING A DHCP SUPPORTED LAN RECOMMENDED):
 1. Connect the BioEntry Plus/BioEntry W to your LAN via Ethernet.



- 2. Ensure that the PC running BioStar is on the same subnet as the reader.
- 3. In BioStar, click the **Device** menu tab.
- 4. Click Add Device (located under Tasks on left side).

IdSK	
Add Device	
🙀 Firmware Upgrade	
Details	
Total:1	
Selected : Device	
User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	»

5. Select LAN and click Next.

Search and Add Device	Taxian or Arristo Arristo	X
	Select one of way to search device to be added.	
	 LAN Semil USB Device Wrball USB Device 	
	∢ BodNext >	Cancel

6. Check the box for UDP and click Next.

	This is to	show adva	anced search.			
□ TCP 192 - 168 - 102 - □ LCP	1 ~ [255]	Port	851/DST/AST/851	2/FST	* 14	m]

 Wait for the device to be found and then click Next (if the device was not found, ensure that the reader is on the same subnet as BioStar, or repeat Step 6 choosing TCP to search for a range of IP addresses).

	configure settir IF you	Searching In order to change ig on the right after want to add BioStar) Finished network information, select the specific dev Server, chedic [Server	vice in the list. r Lise]
Davies ID	ID.	Tree	Change Network	
17088	192.168.1.220	Ricstation T2	DHCP	🖲 Use 💿 Not Use
			IP Address	192 . 168 . 1 . 220
			Gateway	
			Subnet	0.0
			Port	1470
			Server	192 - 168 - 102 - 121
•	-10		Server Fort	1460
	100%			Time Sync with Server
1 device(s) fo	und.		System Info	Refresh Modify

8. Click the checkbox next to the device, then click Add.

Device ID	lb	Туре	1	
17088	192.168.1.220	BioStation T2		
			A	id

- 9. A dialogue box **1 Device Added** should appear.
- 10. Click **OK** and **Finish**.
- I. BIOLITE NET NETWORK SETTINGS (Direct Network Connection to PC):
 - 1. Statically set your PC running BioStar to the following address:
 - a. IP Address: 192.168.0.10
 - b. Gateway: 192.168.0.1
 - c. Subnet: 255.255.255.0
 - 2. On the BioLite Net, create your first administrator password. It is recommended to use the User ID of **1** and password **1234**. This is temporary and will be removed automatically once connected to BioStar.
 - 3. Press menu once at the BioLite Net home screen.
 - 4. Enter your Admin ID and Password.
 - 5. Move the right arrow to the **Device** icon, click **OK**.
 - 6. Move the right arrow to I/O, click OK.
 - 7. Move the right arrow to **TCP**/**IP**, click **OK**.
 - Enter 192.168.0.15 as the IP address, (pressing the > arrow will enter decimals). Once finished, press OK.
 - 9. Enter the 255.255.255.0 as the subnet.
 - 10. Enter **192.168.0.1** as the gateway.
 - 11. Use port **1471**.
 - 12. Select **Not Use** when prompted for **Server**.
 - 13. Select Not Support for 100-base T Support.



- 14. In BioStar, click the Device menu tab.
- 15. Click Add Device (located under Tasks on the left side).

Task	
Add Device	
🙀 Firmware Upgrade	
Details	
Total: 1	
Selected : Device	
🕵 User	
Doors	
Access Control	
Monitoring	
Device	
Time and Attendance	
	»

16. Select LAN and click Next.



- 17. Check the box for **TCP**.
- 18. Enter **192.168.0.14**
- 19. Enter **16** as the ending range.
- 20. Click Next.

	This is to sho	w advanced seard	vanced search.		
ПСР 192 - 168 - 102 + 1 Шисе	~ 255	net – BST/DST/K	STJEST2JFST	+ [1470]	
			< Back	Next > Can	

21. When the device is found, click Next.

	configure settir Lf you	Search In order to chan ig on the right af want to add BioS	ng Finished ge network information, ter select the specific devi tar Server, check [Server	ce in the list. Use]	
Device ID	P	Type	Change Network		
17088	192, 168, 1-220	BuStation T2	DHCP	🙁 Use	O Not Use
			IP Address	192 1	68 . 1 . 220
			Gateway	1. 6	- 24 - 34 - L
			Subnet		19 19
			Port	1	1470
			ElServer	192 . 1	68 , 102 , 121
× .			Server Port		1480
	100%			Time Syr	ne with Server
1 device(s) fo	und.		System Info	Refresh	Modify

22. Click the checkbox next to the device, then click Add.

Device ID	P	Туре	The second se	
₩ 17088	192. 168. 1. 220	BioStation T2		
			A	dd)

- 23. A dialogue box 1 Device Added should appear.
- 24. Click **OK** and then **Finish**.

1.7 DEVICE CONFIGURATION TO COMMUNICATE WITH BRIVO CONTROLLER

This section will explain how to configure the Suprema reader to communicate via Wiegand to a Brivo controller.

- A. Select your desired device from the device tree.
- B. Click the Wiegand tab and choose the desired Wiegand output next to the Wiegand In/Out prompt.
 - 1. If **Wiegand** (user) out is chosen, there must be a user with a card number in the Brivo account that corresponds with a User ID in BioStar.
 - 2. If **Wiegand (card) out** is chosen, there must be a user with a card number in the Brivo account that corresponds with a card number in a user profile in BioStar.
- C. Confirm the proper Wiegand bit format is configured, then click **Apply**.
- D. The reader is now ready to communicate to a Brivo controller, but it is recommended that you enroll and transfer a fingerprint to the BioEntry Plus for testing. You may then follow the steps for adding an Unknown Card found in the Brivo administrator manual for the appropriate platform being used.

obrivo.

Device	Device						
E- 📆 Device	Basic Information						
- BioStar Server	Name 113[192,168.0.50	0	Device ID	113			
	Firmware V1.12_120502		Device Type	EST2MW-OC			
	Operation Mode Fingerprint Ca	amera Network Access Con	trol Interphone	Input Output B	lack List Display/Sour	id T & A Wiega	ind
	BioStation T2 Time			S	ync with Host PC Time		
Task	Date 10/14/2012	- Time 12:41:12 F	N O	GetTime	SetTine		
M Add Device	ED Operation Mode		Card Opera	ton Made			
13 Firmware Upgrade	ID + Fingerprint	No Time 👻	Card Only		No Time		
Details	ID + Personand	No Time 💌	Card + Pri	gerprint	No Tine		
Total : 1	ID + Fingerprint/Password	Abonus	Card + Par	ssword	No Time	*	
Selected : 113(192.168.0.50)	ID + Digerorint + Password	NoTime	Card + Pin	gerprint/Password	Amays	•	
Hitti		ine ine	Card + Fin	gerprint + Password	No Time		
User	Pingerprint Operation Mode	Tata and			No. No.		
Doors	Fingerprint	Annays •	Private Au	n	Disable	87.5	
Minual Mass	Fingerprint + Password	No line ¥	Double Mo	de	No Time		
and a second second	Funckey + Fingerprint	No Time -	Detect Fac	÷	NotUse		
Camera	Password	No Time •	Server Mal	tching	Disable		
i tin	No.		Matching T	meaut	30 sec		
Access Control	Not use Mifare	📰 Use Templete on Card	View Mifare L	ayout			
Monitoring	Card ID Format Format Type Normal	• Byte Order	MSB	· Sit Ord	er MSB		
Device		and a second second					
Time and Attendance							

1.8 CONFIGURING A CUSTOM WIEGAND FORMAT IN BIOSTAR

- A. Click the **Wiegand** tab.
- B. Click Change Format. This will open the Wiegand configuration wizard.
- C. Click a radio button to select one of the following options:
 - 1. Click Change Format. This will open the Wiegand Configuration wizard.
 - 2. Click a radio button to select one of the following options.
 - a. 26-bit standard: This format is most widely used and consists of an 8 bit FC (facility code) and a 16-bit ID. You cannot change the bit definition of the format or the parity bits of this format.

IN IS CODE	Field 0 0	
10	Alt. Value	

- b. When configuring 26-bit, the only thing you can customize is the FC code. To do this, follow through the wizard to the last page, and modify the FC Code under "26-bit Standerd."
- D. **Pass-through:** Use this format to customize only the ID bits. During verification, if the ID is recognized, the Wiegand input string will pass through in its original form. You cannot set the parity bits or alternative values of this format. Non-ID bits are set to 0.
- E. Custom: With a custom format you can define the ID bits, parity bits, and alternative values.

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Wiegand Configuration - Format	X
Total Bits 26 Apply ID Bits 8	
0 E I I I I I I I I 0 15 16 31 32 47 48 56 63	I User ID E Even Parity O Odd Parity Undefined
< Back Next >	Cancel

- F. After selecting the format within the wizard, click **Next** to advance to the Format window.
- G. If desired, enter a new total number of bits and click **Apply**.
- H. Click the User ID button (I) on the right and assign ID bits by clicking the appropriate squares.
- I. Click the Even Parity button (E) on the right and assign an even parity bit by clicking the appropriate squares.
- J. Click the Odd Parity button (0) on the right and assign an even parity bit by clicking the appropriate squares.
- K. Click Next.

Wiegand Configuration - Parity	
Choose bits for calculating p	arity 1/2
48	Initalialize
	< <u>Back</u> <u>N</u> ext > Cancel

- L. In the Parity window, select the bits that will be used to calculate the first parity bit.
- M. As necessary, click the ">>" button and select the bits that will be used to calculate the additional parity bits. You must perform this step for each of the parity bits that you assigned in Steps 10 and 11. If necessary, you can click "Initialize" to reset the selection.
- N. Click Next.

6 Bit Standard	Custom Format	
FC Code	Field 1 🗘	Non ID: Bit 10 to Bit 25
10		🗹 Alt. Value
		5

- 0. In the Alternative Value window, select a field to customize (Non-ID bits only)
- P. Click the Alt. Value checkbox and enter a new value for the output string.
- Q. Click **Finish** to close the wizard.

R. Click Apply (Bottom right corner of BioStar Wiegand tab).

1.9 ENROLLING AND TRANSFERRING A USER TO A DEVICE

A. Highlight User and then select **Add New User** under Task.

BioStar V1.62								
Eile View Theme Option Administra	ntor <u>H</u> elp							
Back 🛞 Farward 😳 Refresh 🤱	Find User	Print .						
User	User							
- Se User	User ID	Name	Department	Email	Telepho	Start Date	Expire Date	Admin Level
				There are	no items to show	6		
Task								
Add New User w Export User an Import User an Import User Transfer All Users to Device Manage Users in Device								
Details								
Total : 0 Selected : User (1)								
2 User								
Doors								
🚯 Access Control								
Monitoring								
Device								
Time and Attendance								
*								
Ready							c	AP NUM SCRL

B. Next on the Details tab provide a Name, ID and Start Date.

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RNO	Name	James Bon	d		Modify Private Inf	ormation
Image	Department					
10.10	Telephone	-		E-Mail	-	
	Password			Admin Level	Normal User	Ŧ
s Fingerprints Fac	e Face (Fusi	on) Card	Access Control T	& A Event		
D						
tart Data	1/ 1/					
tart Date	1/ 1/	2013				
xpiry Date	12/31/	2030 🔲 🔻	23 hour			
rivate Auth Mode	Device	Default	-			
itle	guest		-			
Iobile						
enders	Male		+			
ate of Birth	9/ 6/	2013				

C. Next on the Fingerprints tab select **Scan**. You will be prompted to Place Finger on Device, which will be repeated until you have a successful scan. You may also select **Verification Test** to confirm the fingerprint capture.

User				
Basic Information				
No	Name	James Bond		Modify Private Information
Image	Department			
0200	Telephone		E-Mail	
	Password		Admin Level	Normal User 🗸
Details Fingerprints F Enroll Device 1:1 Security Level	ace Face (Fusion 29322 Norma	on) Card Access Contr [192.168.0.13] I((1/100,000)	rol T & A Event	ess Scan Ification Test

D. Next under Tasks select **Transfer All Users to Device**. Check the desired device, then select the **Transfer to Device** button. You may now test the fingerprint and enroll and Unknown Card in the Brivo OnAir account.

	View Re						
29322[192.100.0.13]	User ID	User	Department	Telephone	Email		
	1	James Bond					
			10		-		
			III				
	Transfer to Delete U	Jsers Caution	rwrite users with differe : Delete selected users	nt information. in the list above from the	e devices.		
	All users						
	Synchronize	All Users Transfe	r all users to device and	delete redundant users	in device only		