Suprema BioStar 2
Main Integration

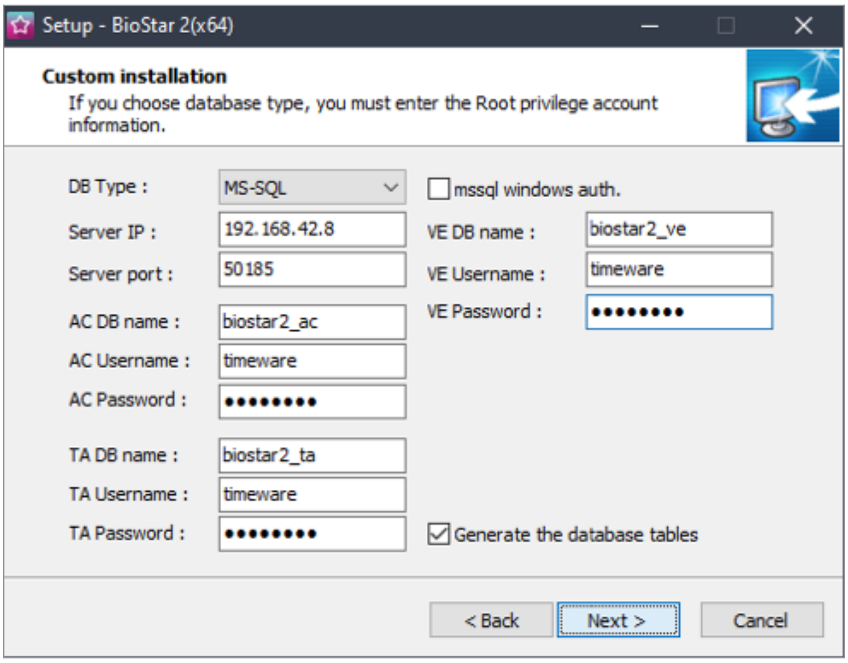
Overview:

- Minimum supported version of Biostar 2 is V2.8.15.12. With every new release of Biostar 2, the integration will be tested internally.
- There is no annual charge for the integration, the only thing that is required is an upgrade to 2023. There is no connection fee per device, but the license engine allows us to control how many devices can be connected. This is so customers can’t add devices to the system as they like without us knowing. We can also control the type of devices, whether it be Access Control or Attendance. An example could be you asking for a license that allows 3 Access Control devices and 5 Attendance devices. If any more devices are added, then a new license will be required.
- Suprema licensing structure still applies to the integration. Noticeable points are below, for full details, please see https://www.supremainc.com/en/platform/hybrid-security-platform-biostar-2.asp
  - Free version has a maximum of 5 doors (attendance only units are still classed as doors)
  - Basic version has a maximum of 20 doors (attendance only units are still classed as doors)
  - Standard version has a maximum of 50 doors (attendance only units are still classed as doors)
  - Advanced version has a maximum of 100 doors (attendance only units are still classed as doors)
  - Anti-pass back/repeat swipe duration is reader specific for free and basic licenses. From the standard license upwards, it is global. An example could be a server room with two doors. On the free and basic licenses, you could gain access to door ”A”, pass your card to an employee, and they could gain access through door ”b”. If this was using the global anti-pass back, you would be denied access at door ”b” until you had ”exited” through one of the doors first.
  - Fire alarm triggers are from Standard license upwards. This is because we make use of the zones section in Biostar.

Installation:

- Requirements
  - Biostar 2 software https://www.supremainc.com/en/support/biostar-2-package.asp
  - Please check Suprema’s minimum spec documentation for the requirements for Biostar.
  - timeware® 2023 (23.1.2 or greater)
  - .NET Runtime 7.0.X https://dotnet.microsoft.com/en-us/download/dotnet/7.0
- Run the installer as admin. Make a note of the password created for the ”admin” account as we will need this later. The 2nd page when you are setting a password for ”root”, make a note of the password but we don’t need this specifically for the integration. ”Express installation” option is no longer recommended, we want to choose ”custom installation” so we can change the database structure to be SQL rather then MariaDB.

- On the next screen, change "DB Type" to MS-SQL and point it to your SQL instance. This can be a separate instance purely for Biostar DB's, or you can have them hosted on the same instance as the timeware® databases. The server port can be found in SQL Configuration manager app. We have decided on a standard of "biostar2_ac", "biostar2_ta" and "biostar2_ve" for the database names. The Username and Password is the same details which you use to connect to your instance. Depending on SQL version you may need to manually create the databases yourself from within SSMS. To do this just right click on your instance->new database. Make sure "Generate the database tables" is ticked.



Setup - BioStar 2(x64)

Custom installation

If you choose database type, you must enter the Root privilege account information.

DB Type : MS-SQL

□ mssql windows auth.

Server IP : 192.168.42.8

Server port : 50185

AC DB name : biostar2_ac

AC Username : timeware

AC Password : ••••••••

TA DB name : biostar2_ta

TA Username : timeware

TA Password : ••••••••

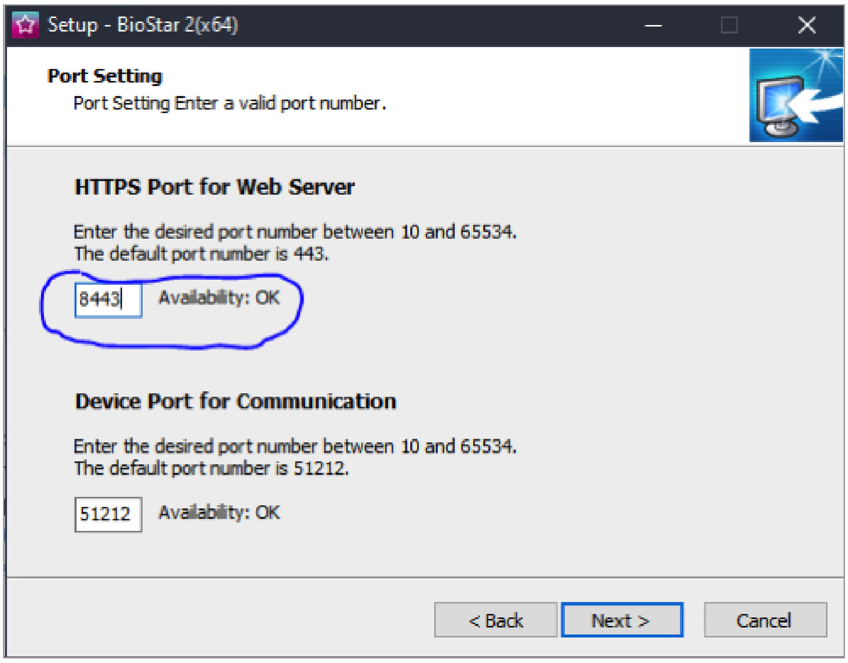
VE DB name : biostar2_ve

VE Username : timeware

VE Password : ••••••••

☑ Generate the database tables

- When you get to the "Port Settings" page (see screen below), make sure nothing is using the assigned port for the "HTTPS Port for Web Server". If something is already using the default port, choose another one. Click on "next" and then "back" to return to the port screen to see if the newly chose port is available.



Setup - BioStar 2(x64)

Port Setting

Port Setting Enter a valid port number.

HTTPS Port for Web Server

Enter the desired port number between 10 and 65534.
The default port number is 443.

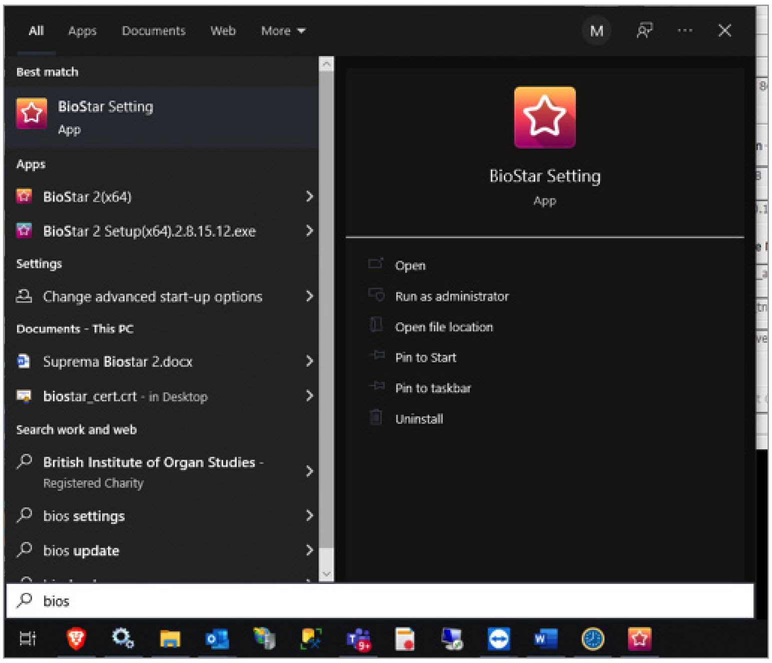
8443 Availability: OK

Device Port for Communication

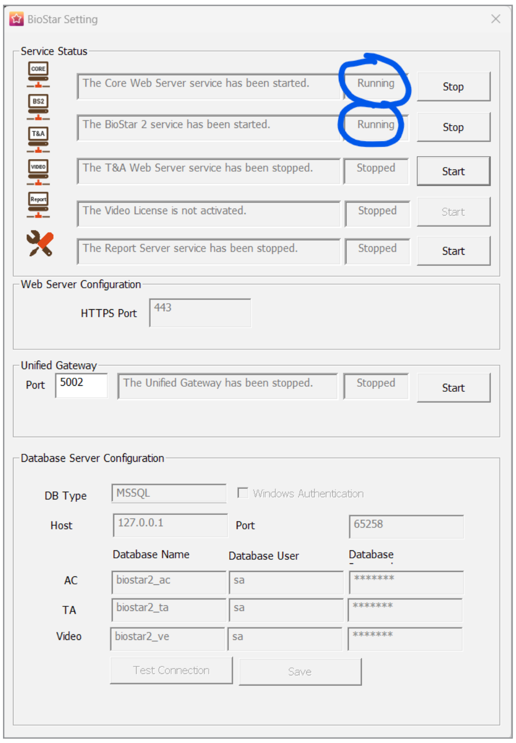
Enter the desired port number between 10 and 65534.
The default port number is 51212.

51212 Availability: OK

- Run through the rest of the installer with the default settings, if you require a USB device connected to the server then install the USB driver when prompted
- Once installation has finished, search for "Biostar" in the windows start menu and open "Biostar settings".



- Confirm that the top 3 services are running


BioStar Setting

Service Status

The Core Web Server service has been started.	Running	Stop
The BioStar 2 service has been started.	Running	Stop
The T&A Web Server service has been stopped.	Stopped	Start
The Video License is not activated.	Stopped	Start
The Report Server service has been stopped.	Stopped	Start

Web Server Configuration

HTTPS Port 443

Unified Gateway

Port 5002 The Unified Gateway has been stopped. Stopped Start

Database Server Configuration

DB Type MSSQL ☐ Windows Authentication

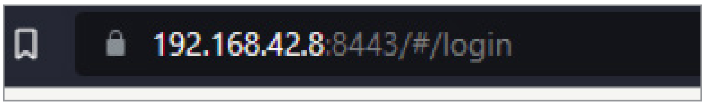
Host 127.0.0.1 Port 65258

	Database Name	Database User	Database
AC	biostar2_ac	sa	*******
TA	biostar2_ta	sa	*******
Video	biostar2_ve	sa	*******

Test Connection Save

If the Unified Gateway has been started, this will need to be stopped as this uses the same port as the HTTPS port and will swap them around, you may need to switch them back if this has been started.

- We need to configure the HTTPS certificate, go to https://kb.supremainc.com/knowledge/doku.php?id=en:how_to_configure_https_settings_for_the_web_client and follow the instructions on there. We recommend using the IP of the server rather than "localhost"
- Once the above is completed, browse to https://[IP]:[PORT] and you should be presented with the Biostar logon page. You should see the padlock icon next to the URL indicating the site is secure. You may need to close your browser down if it was already open.

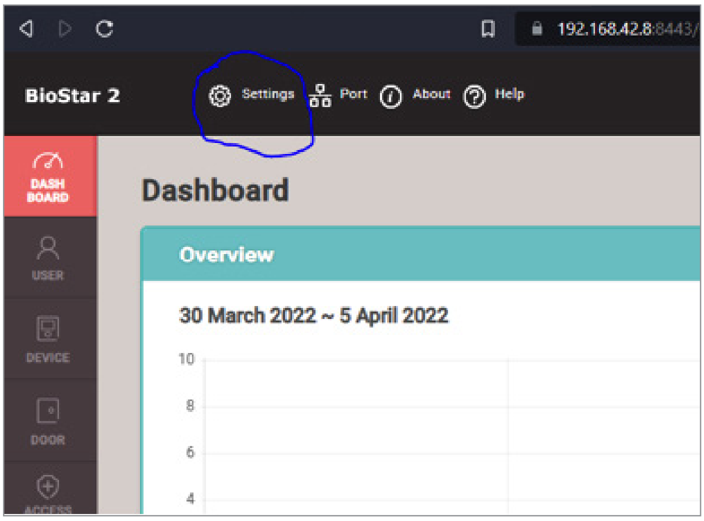


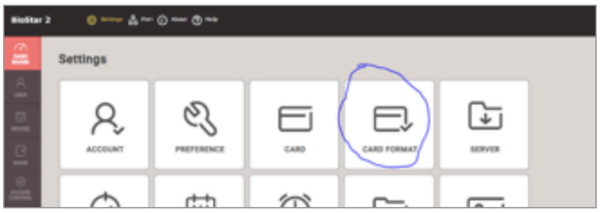
192.168.42.8:8443/#/login

- Login with the admin account and the password created previously, if successful you will be presented with the dashboard page.

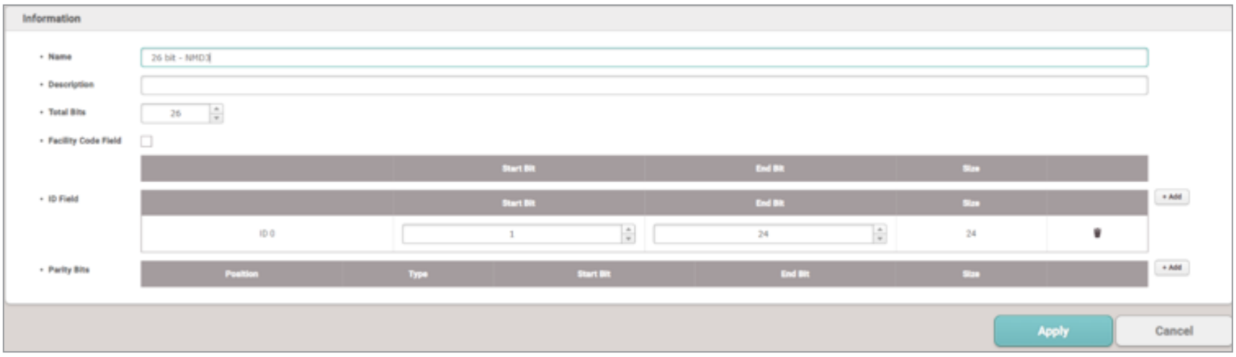
Configuration:

- First up we need to configure our "standard" badge format. From the Biostar dashboard page, go to "Settings" at the top and then "Card Format".





- Click then pen icon on the next available slot, should be Weigand ID 6.
- Input the following settings and then click apply.



Information

- Name: 26 bit - NMD3
- Description:
- Total Bits: 26
- Facility Code Field: □

	Start Bit	End Bit	Size	

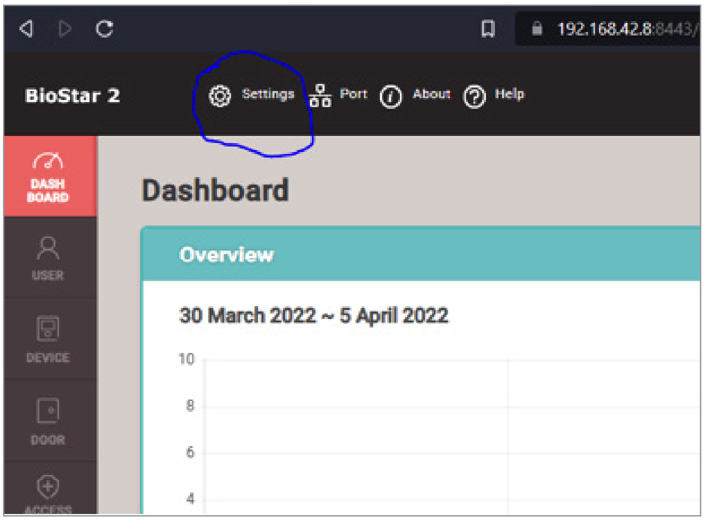
- ID Field

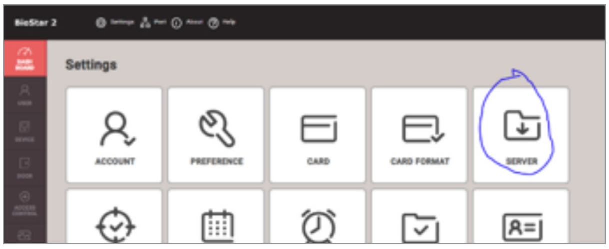
	Start Bit	End Bit	Size	
ID 0	1	24	24	

- Parity Bits

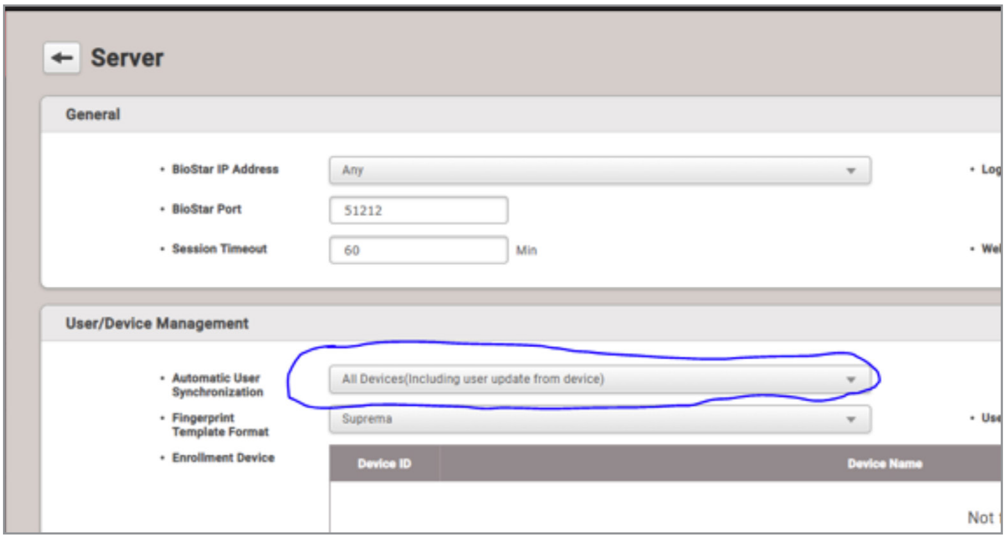
Position	Type	Start Bit	End Bit	Size	

- Next up is enabling templates to be brought up into the software from the devices. If you go to "Settings" and then "Server".





- Under the "User/Device Management header, change "Automatic User Synchronization" from "All Devices" to "All Devices (Including user update from device). This allows any changes to users that are made at the device to come up into Biostar.



Server

General

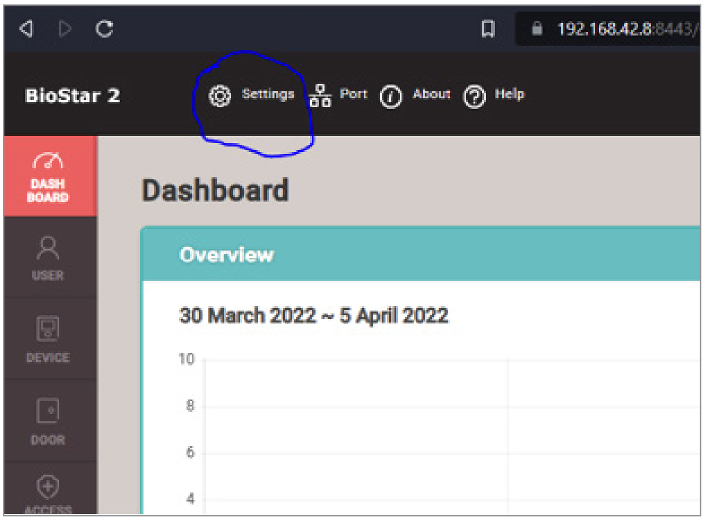
- BioStar IP Address: Any
- BioStar Port: 51212
- Session Timeout: 60 Min

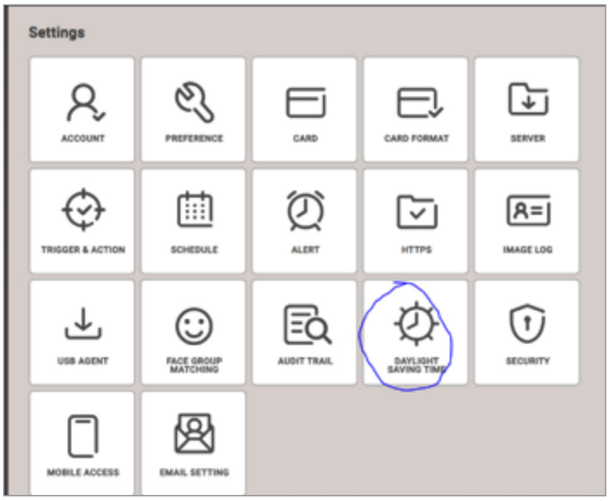
User/Device Management

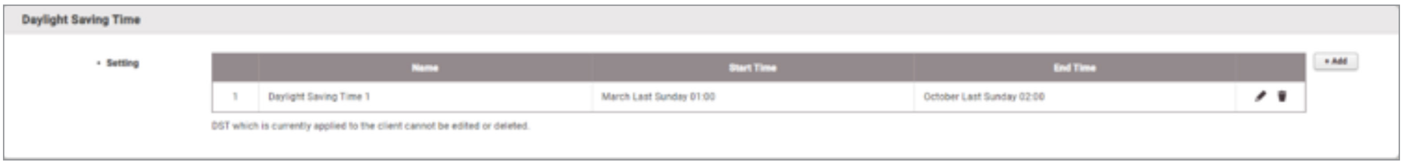
- Automatic User Synchronization: All Devices(Including user update from device)
- Fingerprint Template Format: Suprema
- Enrollment Device

Device ID	Device Name

- We must also setup Daylight Saving Time, again go to “Settings” and then “Daylight Saving Time”.






Daylight Saving Time

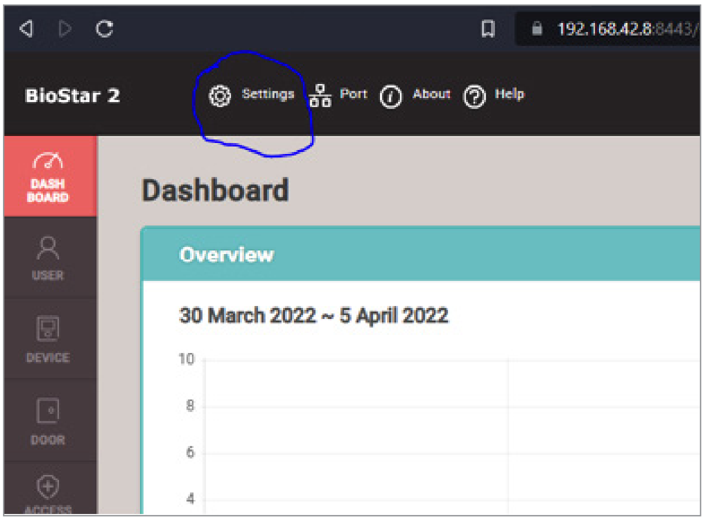
- Setting

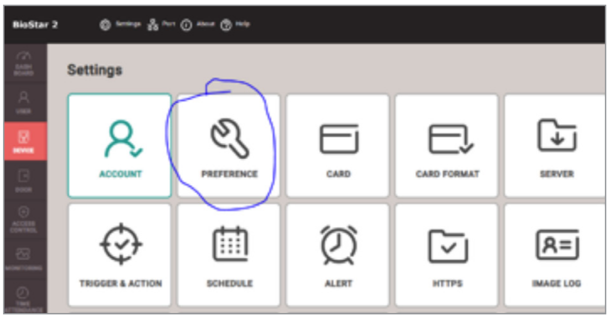
	Name	Start Time	End Time	
1	Daylight Saving Time 1	March Last Sunday 01:00	October Last Sunday 02:00	

DST which is currently applied to the client cannot be edited or deleted.

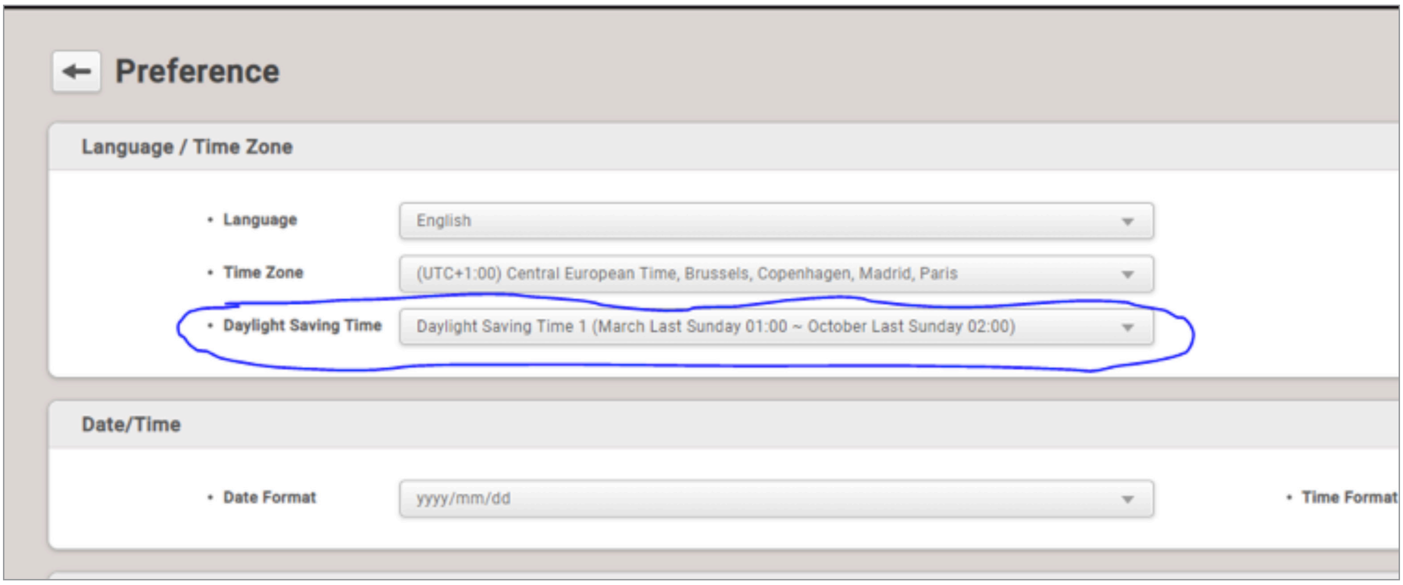
+ Add

- Click the add button on the right-hand side and enter the following settings.
- Go back to “Settings” and then “Preferences”





- Apply the Daylight Saving time you just created in the following dropdown and then click apply.



Preference

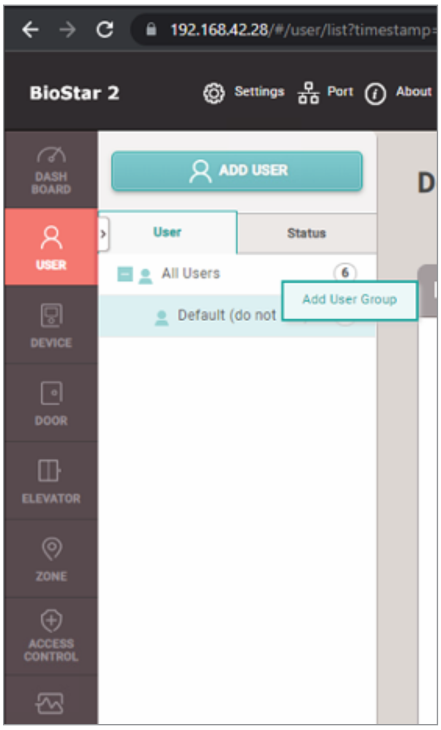
Language / Time Zone

- Language: English
- Time Zone: (UTC+1:00) Central European Time, Brussels, Copenhagen, Madrid, Paris
- Daylight Saving Time: Daylight Saving Time 1 (March Last Sunday 01:00 ~ October Last Sunday 02:00)

Date/Time

- Date Format: yyyy/mm/dd
- Time Format

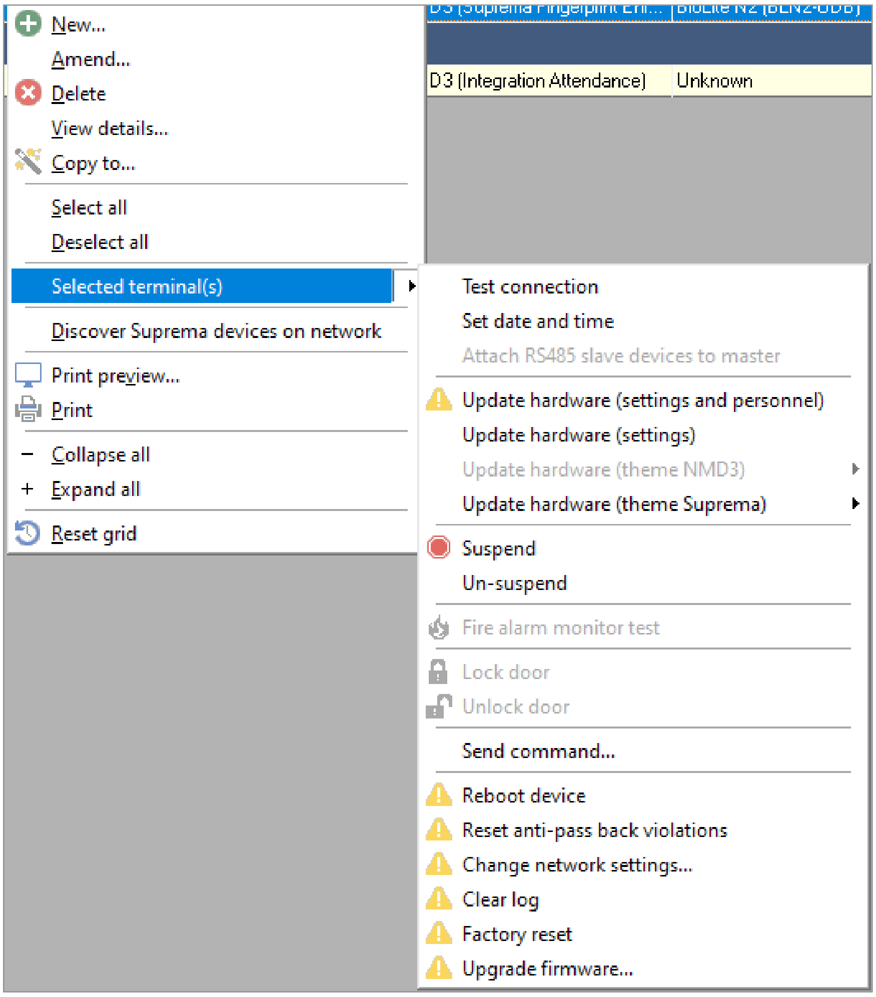
- We want to create a "default" user group which will contain no users. This is so we can assign users on an individual level to access groups from within timeware®. Go to Users, then right click on "All Users"-> "Add user group". Name this new user group "Default (do not use).



(Only applicable if devices have already been used in timeware previously)

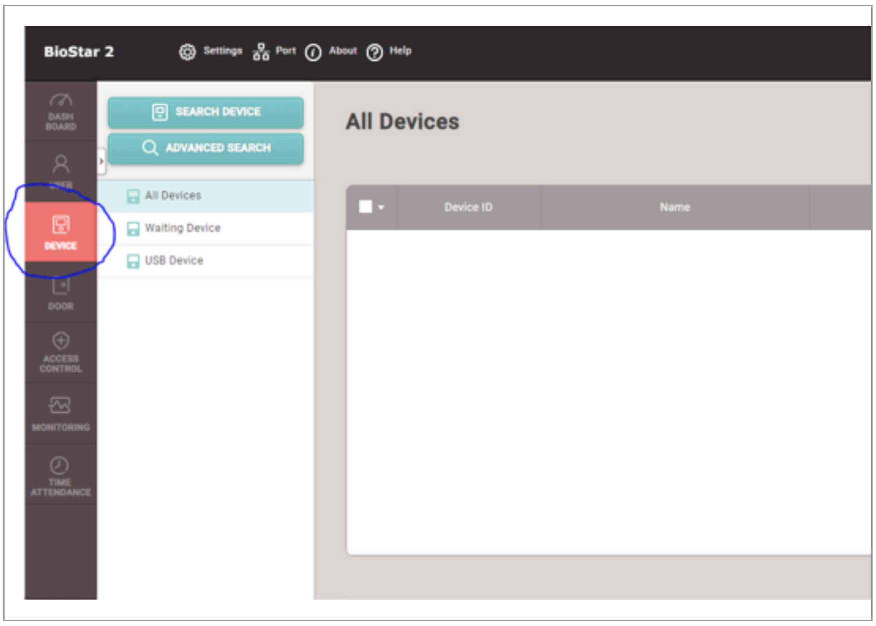
When devices have already been in use within timeware® for some time, it carries with it issues involving the log files and biostar2 not being able to catch up, resulting in nothing being posted to the event log (and in turn bring bookings in to timeware®!)

Within timeware® before you add any devices in to biostar2 you need to clear the logs from the devices. This is done via the terminal configuration screen by right clicking on the device, selected terminal(s) then Clear Log

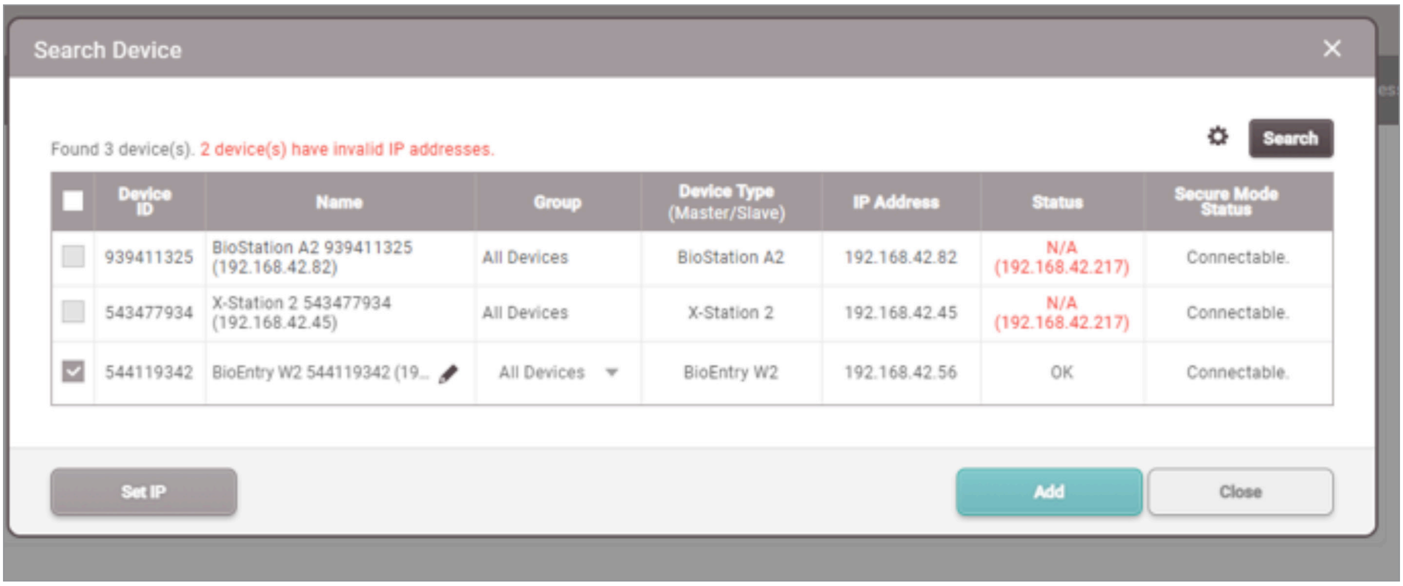

D3 (Suprema Fingerprint Ent... BioLite N2 (BLN2-ODB)
D3 (Integration Attendance) Unknown
New...
Amend...
Delete
View details...
Copy to...
Select all
Deselect all
Selected terminal(s)
Discover Suprema devices on network
Print preview...
Print
Collapse all
Expand all
Reset grid
Test connection
Set date and time
Attach RS485 slave devices to master
Update hardware (settings and personnel)
Update hardware (settings)
Update hardware (theme NMD3)
Update hardware (theme Suprema)
Suspend
Un-suspend
Fire alarm monitor test
Lock door
Unlock door
Send command...
Reboot device
Reset anti-pass back violations
Change network settings...
Clear log
Factory reset
Upgrade firmware...

If you have issues with bookings not coming in to timeware® after you've completed the rest of this document, you may need to reset the latest log entry within tbiostar_event_log_management. If you right click on the tbiostar_event_log_management table with SSMS, and then edit. In here if you change the event_log_id for the current month to 0 based on the month_start and month_end fields, this will synchronise the log files between the devices and the timeware® database.

- Next is to add a device. Head to the device section.



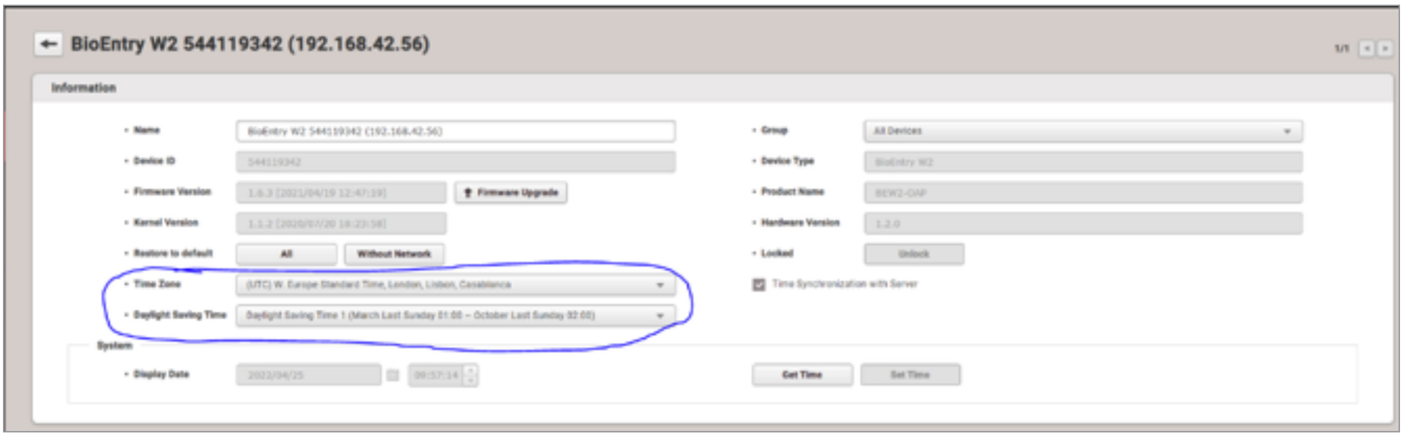
- Click "Search for Devices". If your device is on the same LAN it should discover it. If not, you may need to use the "Advanced Search" option, where you enter the devices IP address manually. Select your device and then click "add".



Found 3 device(s). 2 device(s) have invalid IP addresses.

□	Device ID	Name	Group	Device Type (Master/Slave)	IP Address	Status	Secure Mode Status
□	939411325	BioStation A2 939411325 (192.168.42.82)	All Devices	BioStation A2	192.168.42.82	N/A (192.168.42.217)	Connectable.
□	543477934	X-Station 2 543477934 (192.168.42.45)	All Devices	X-Station 2	192.168.42.45	N/A (192.168.42.217)	Connectable.
☑	544119342	BioEntry W2 544119342 (19...	All Devices	BioEntry W2	192.168.42.56	OK	Connectable.

- Click on the device you just added, make sure the correct time zone is selected and select the Daylight Saving Time preset we created earlier in the guide.
- Under "System" set the Date Format to "DD/MM/YYYY"



BioEntry W2 544119342 (192.168.42.56)

Information

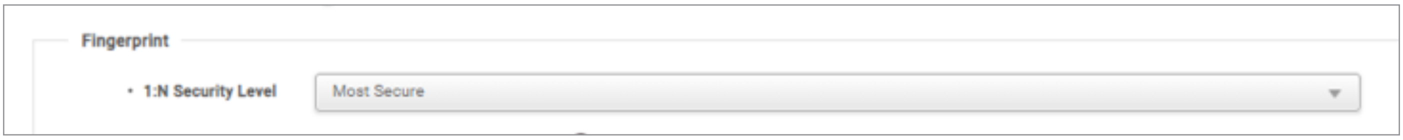
- Name: BioEntry W2 544119342 (192.168.42.56)
- Device ID: 544119342
- Firmware Version: 1.6.3 [2021/04/19 12:47:19]
- Kernel Version: 1.1.2 [2020/07/20 18:23:58]
- Restore to default: All / Without Network
- Time Zone: (UTC) W. Europe Standard Time, London, Lisbon, Casablanca
- Daylight Saving Time: Daylight Saving Time 1 (March Last Sunday 01:00 – October Last Sunday 02:00)
- Group: All Devices
- Device Type: BioEntry W2
- Product Name: BEW2-OAP
- Hardware Version: 1.2.0
- Locked: Unlock

☑ Time Synchronization with Server

System

- Display Date: 2022/04/25 09:57:14

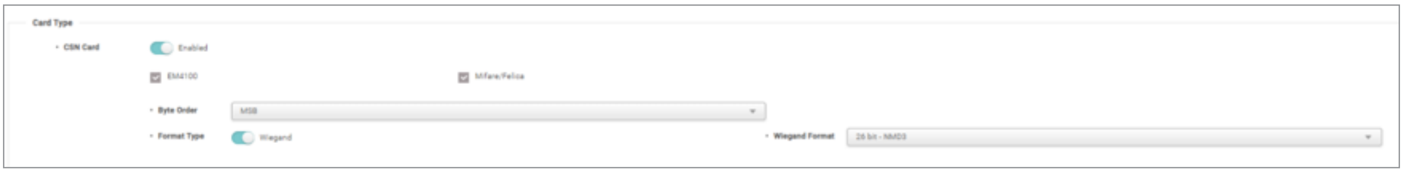
- Under the "Authentication" header, we want to change the 1:N Security level. If it is a face recognition device, we recommend "Secure", for a fingerprint device, we recommend "Most Secure".



Fingerprint

- 1:N Security Level: Most Secure

- If you are attaching any devices as slaves, please check on Suprema's website how to do this.
- We also need to enable the "26 bit – NMD3" Wiegand format we created earlier. Click into the device and in the "Authentication" section, enable the Wiegand format settings as below. If you are using a different card technology you can skip this step



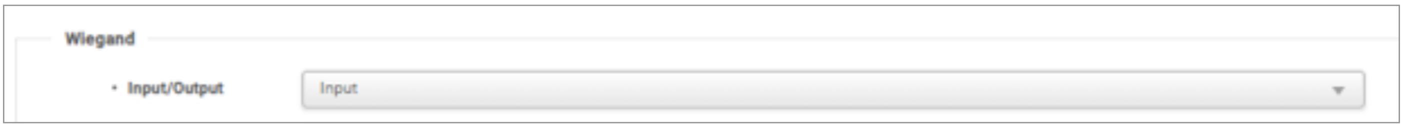
Card Type

- CSN Card: Enabled

☑ EM4100 ☑ Mifare/Felica

- Byte Order: MSB
- Format Type: Wiegand
- Wiegand Format: 26 bit - NMD3

- If it is being used as an attendance unit, we can simulate the "too soon after last booking" by adding a "dummy" slave device and enabling anti-passback. We can then change the resource file on the device to display "too soon" instead of the "APB Violation". You can skip these next steps if this doesn't apply.
    - Click into the device and scroll to the advanced section at the bottom. In the Wiegand section, change "Input/Output" to "Input", then save this away.

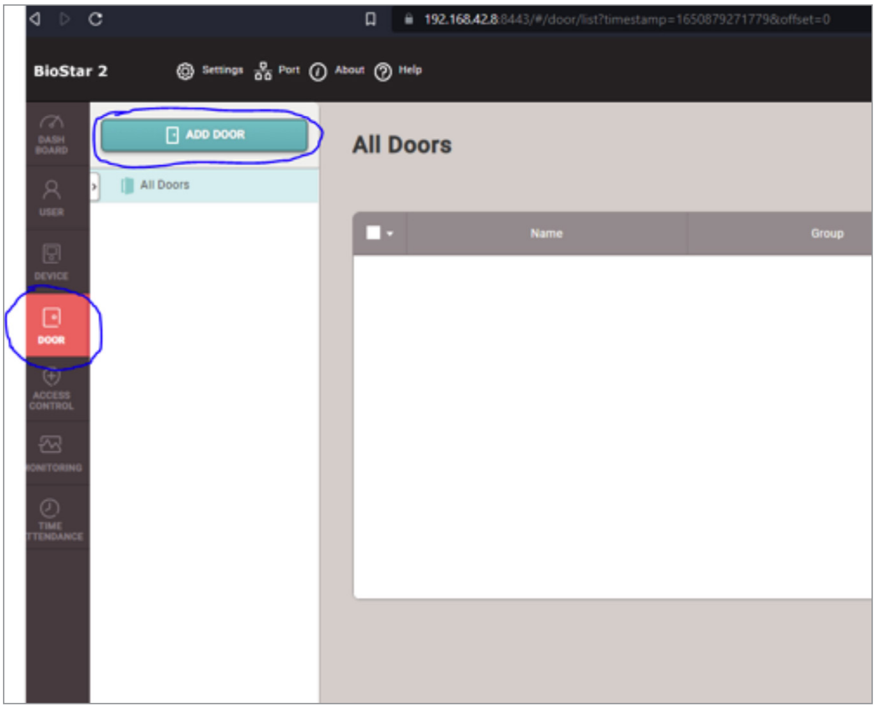


Wiegand

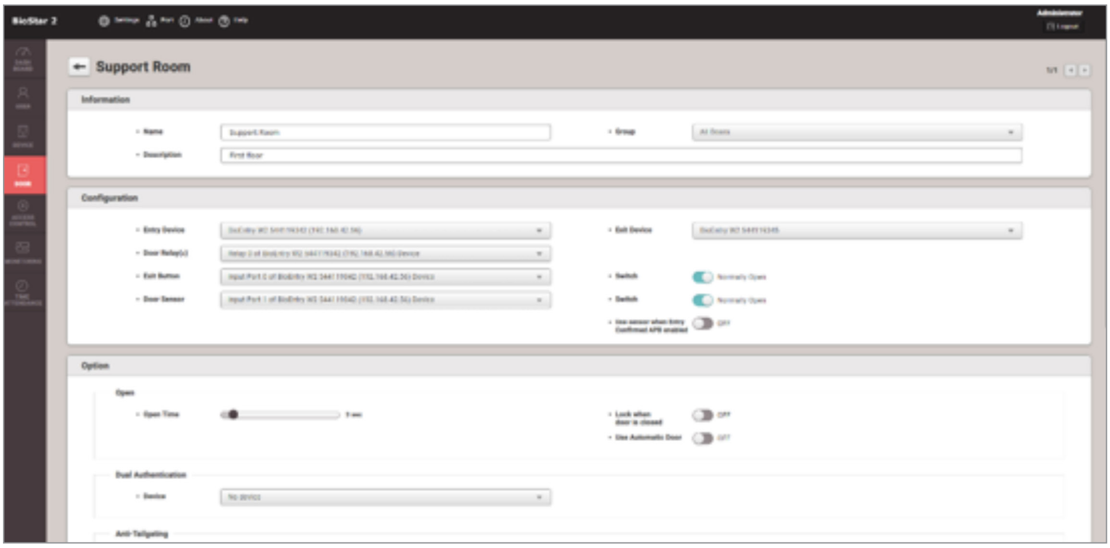
- Input/Output: Input

  - Right click on the device in the left hand side pain and click on "Add Wiegand Device".
  - Give this a name, we use the main device's name + Repeat Swipe as a standard.
  - You can then carry on with the next steps in the guide, assigning this "Repeat Swipe" device we just created as the "Exit Device" for the door.

- Next, we need to add a door. Even if it is attendance only, we still need to set it up as a door. Navigate to door and then click "Add Door".



- Give the door a name and a description, the Group can be left as "All Doors". Under the configuration section, for "Entry Device" select the device you added previously. For "Door Relay" choose the relay of your entry device. For "Exit Button" and "Door Sensor" select the inputs each one is connected to. If you have a slave reader connected (or created the dummy repeat swipe device), assign this as the "Exit Device". If you have assigned an exit device, you will be able to configure the anti-pass back settings at the bottom of the page. If you are on the paid version of Biostar 2 that allows Global anti-pass back, a guide for this is available on Suprema's website. The rest of the settings can be left as default unless you want to configure additional features, these can be found on Suprema's website.



Support Room

Information

- Name: Support Room
- Group: All Doors
- Description: First floor

Configuration

- Entry Device: [illegible]
- Exit Device: [illegible]
- Door Relay(s): [illegible]
- Exit Button: [illegible]
- Switch: Normally Open
- Door Sensor: [illegible]
- Switch: Normally Open
- Use sensor when Entry Confirmed APB enabled: OFF

Option

Open

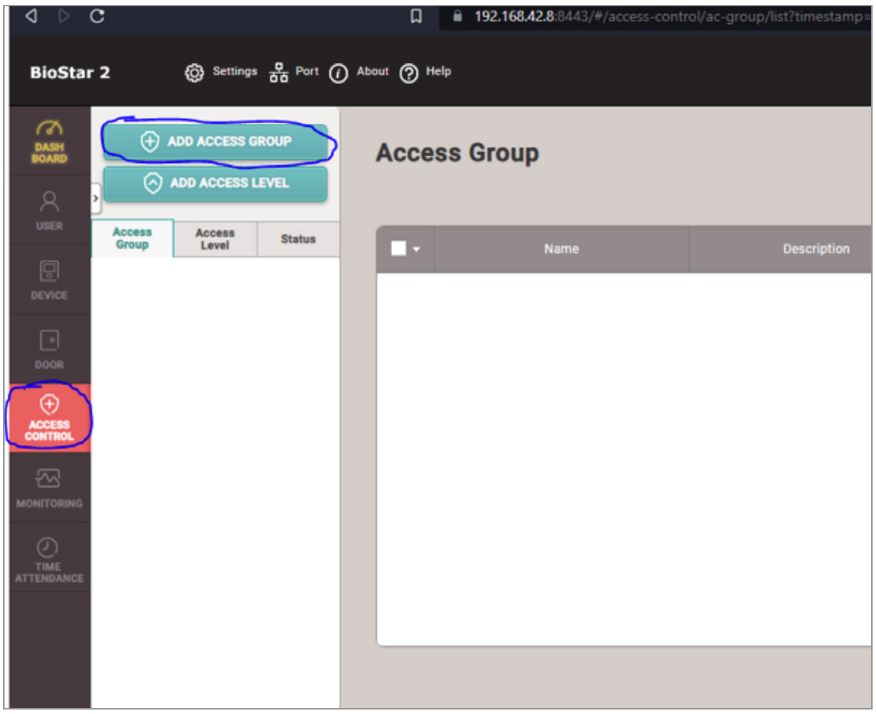
- Open Time: 3 sec
- Lock when door is closed: OFF
- Use Automatic Door: OFF

Dual Authentication

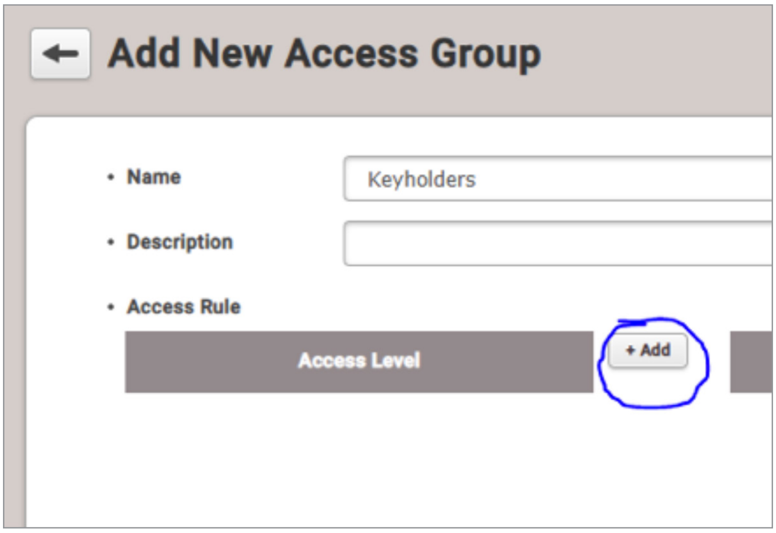
- Device: No device

Anti-Tailgating

- We now need to set up access groups and access levels. Click on "Access Control" on the left-hand side and then click "Add Access Group"



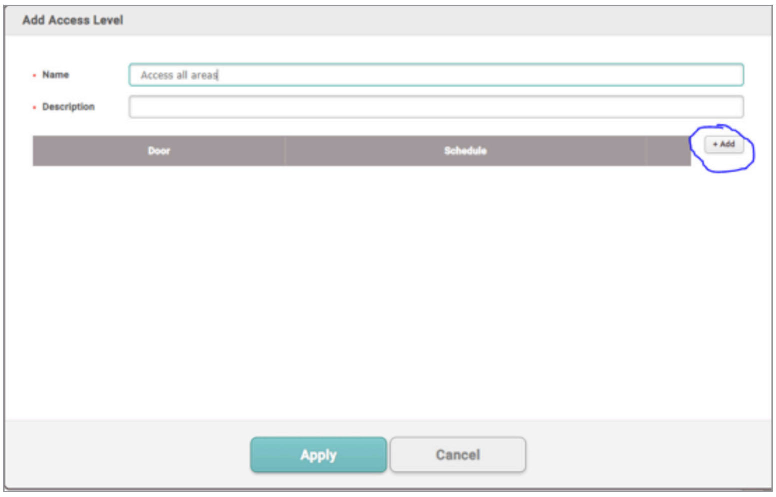
- Give the Access Group a name and description, and then click the "Add" next to "Access Level"



Add New Access Group

- Name: Keyholders
- Description:
- Access Rule

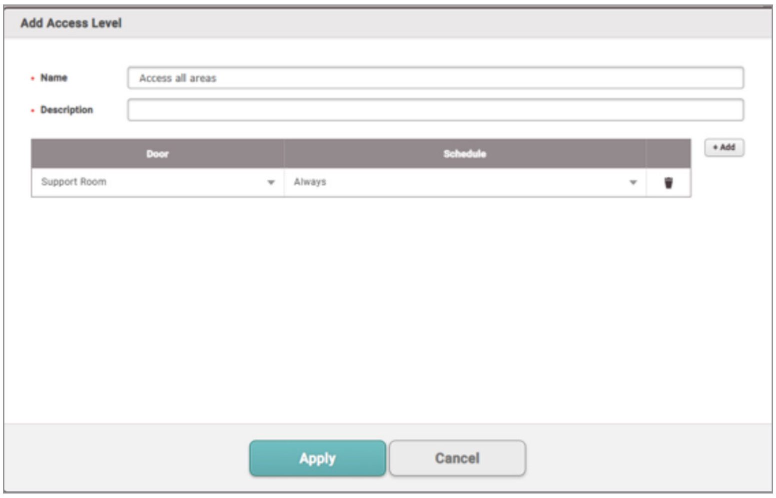
- Once the menu has opened, select "Add Access Level". Give a name and description and then click the "Add" button on the right.



Add Access Level

- Name: Access all areas
- Description:

- Click on the dropdown for "Doors" and select any doors that you want to allow this Access Level to access from the list. On the schedule dropdown choose the correct schedule. "Always" allows access 24/7. If you want a custom schedule, click on the "Add schedule" and create your custom schedule. More information on this can be found on Suprema's website. Click apply.

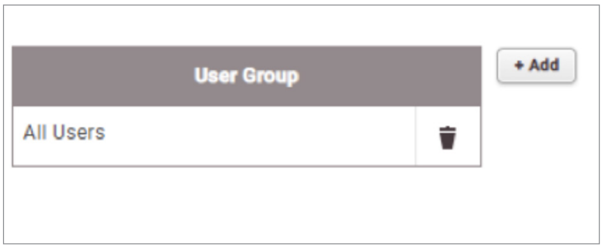


Add Access Level

• Name: Access all areas

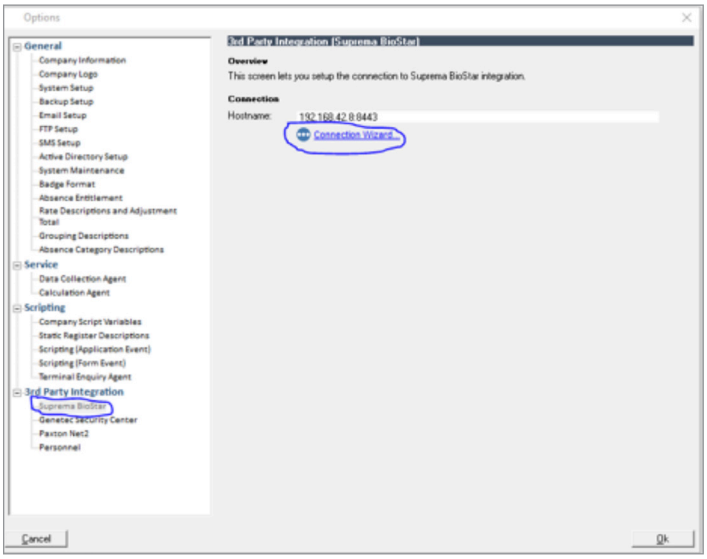
• Description:

Door	Schedule	
Support Room	Always	



User Group	
All Users	

- For the user group option, select the "Default (do not use) group we created earlier. This is so only the individuals synced from timeware® will get added to the Access Groups.
- That is pretty much it for the configuration in Biostar. We now need to point timeware® to the Biostar 2 web address. Open timeware® and go to Advanced->Options and then Suprema Biostar under the "3rd Party Integration" header. Click on the blue "Connection Wizard".



3rd Party Integration (Suprema BioStar)

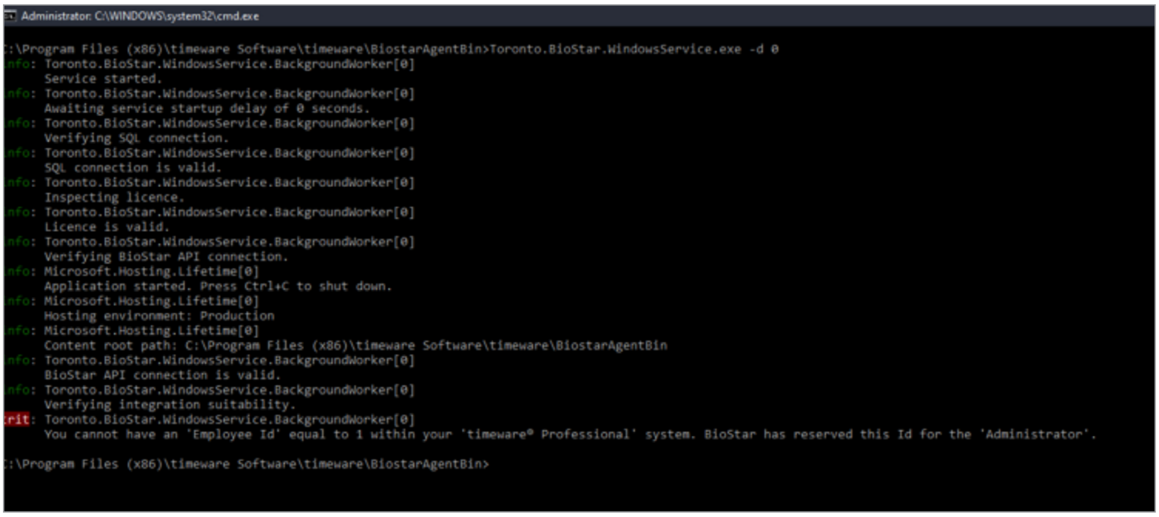
Overview

This screen lets you setup the connection to Suprema BioStar integration.

Connection

Hostname: 192.168.42.8:8443

- Run through the wizard and use the hostname and port that you registered the certificate to In the initial setup of Biostar. Enter the username and password you created when installing biostar. Click next and then finish the wizard. Click okay on the Advanced->Options screen to save away the settings.
- The next thing to do is start the service. Open command prompt and cd to "C:\Program Files (x86)\timeware Software\timeware\BioStarWindowsServiceBin". Run the following command "Toronto.BioStar.WindowsService.exe -d 0". This will start the service with a 0 second delay.
- If you have an employee set up in timeware® with employee_id=1, you will be presented with the following error. Biostar 2 reserves ID=1 for the Administrator account.

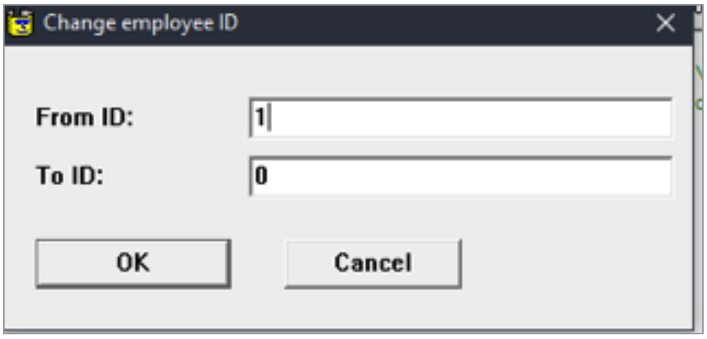


Administrator: C:\WINDOWS\system32\cmd.exe

```
:\Program Files (x86)\timeware Software\timeware\BiostarAgentBin>Toronto.BioStar.WindowsService.exe -d 0
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     Service started.
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     Awaiting service startup delay of 0 seconds.
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     Verifying SQL connection.
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     SQL connection is valid.
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     Inspecting licence.
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     Licence is valid.
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     Verifying BioStar API connection.
nfo: Microsoft.Hosting.Lifetime[0]
     Application started. Press Ctrl+C to shut down.
nfo: Microsoft.Hosting.Lifetime[0]
     Hosting environment: Production
nfo: Microsoft.Hosting.Lifetime[0]
     Content root path: C:\Program Files (x86)\timeware Software\timeware\BiostarAgentBin
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     BioStar API connection is valid.
nfo: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     Verifying integration suitability.
rit: Toronto.BioStar.WindowsService.BackgroundWorker[0]
     You cannot have an 'Employee Id' equal to 1 within your 'timeware® Professional' system. BioStar has reserved this Id for the 'Administrator'.

:\Program Files (x86)\timeware Software\timeware\BiostarAgentBin>
```

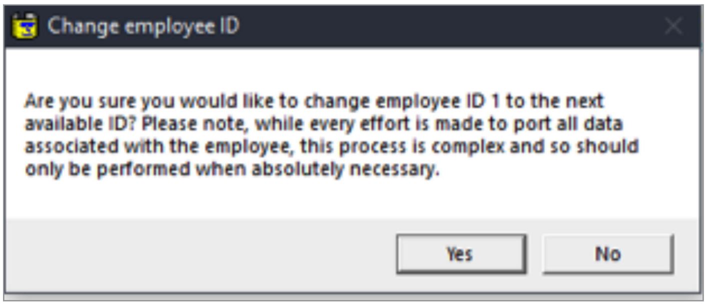
- Go back into timeware® and go to Script Editor->Slider and run the "[Slider] Change employee ID". When prompted say "Change from 1 to 0", 0 being the next available ID. Confirm the prompts and let the script run. You should get a confirmation message.



Change employee ID

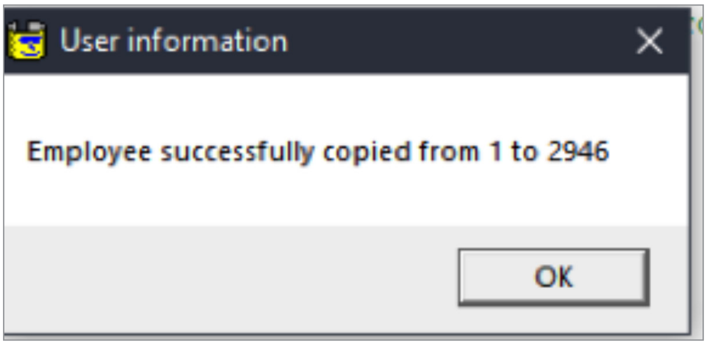
From ID: 1

To ID: 0



Change employee ID

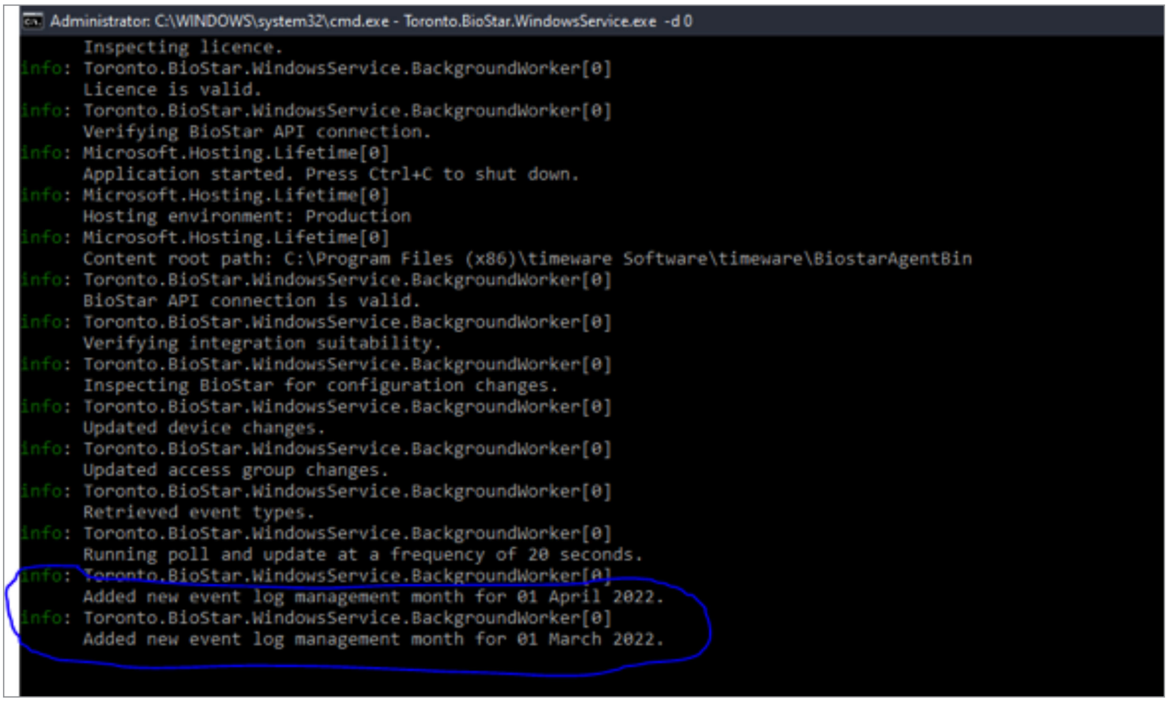
Are you sure you would like to change employee ID 1 to the next available ID? Please note, while every effort is made to port all data associated with the employee, this process is complex and so should only be performed when absolutely necessary.



User information

Employee successfully copied from 1 to 2946

- Rerun the command in the command prompt again and hopefully it should now run through with no errors. You should notice that some info lines display in regards to creating event logs etc. This shows that it is working as intended.



```
Administrator: C:\WINDOWS\system32\cmd.exe - Toronto.BioStar.WindowsService.exe  -d 0
      Inspecting licence.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Licence is valid.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Verifying BioStar API connection.
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Production
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\Program Files (x86)\timeware Software\timeware\BiostarAgentBin
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      BioStar API connection is valid.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Verifying integration suitability.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Inspecting BioStar for configuration changes.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Updated device changes.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Updated access group changes.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Retrieved event types.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Running poll and update at a frequency of 20 seconds.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Added new event log management month for 01 April 2022.
info: Toronto.BioStar.WindowsService.BackgroundWorker[0]
      Added new event log management month for 01 March 2022.
```

- If you now edit one of the personnel records in timeware® (assign access group etc), and save it away, the NMD3 Biostar service will then send this across to Biostar.
- If you are wanting to send people across on mass, I would set everyone on the relevant access groups via a SQL query, for example:

'use timeware_main_6;

update temployee set employee_biostar_access_group_id=1'

(You can add your own where clause on the end)

- Once they have been assigned, you can then add them to the tbiostar table, so the service sends them across, for example:

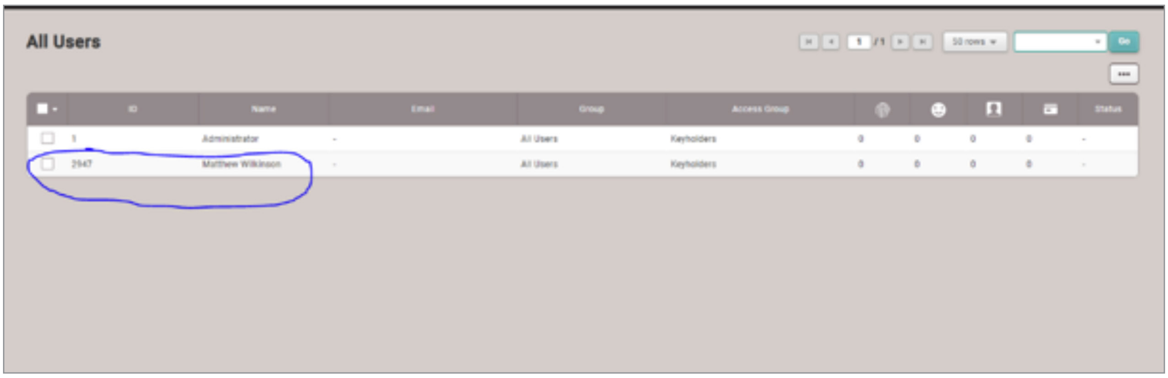
'use timeware_main_6;

insert into tbiostar(biostar_entity_ref_id,biostar_key,biostar_action_ref_id,guid)

select 1, temployee.employee_id,2, temployee.employee_guid

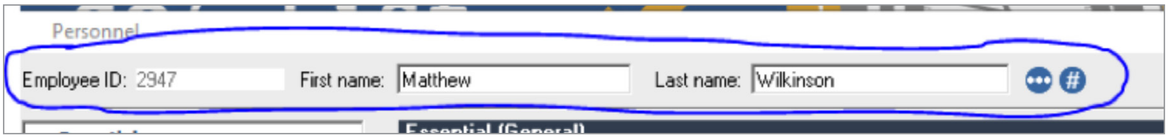
from temployee

where employee_biostar_access_group_id = 1'



All Users

☐	ID	Name	Email	Group	Access Group					Status
☐	1	Administrator	-	All Users	Keyholders	0	0	0	0	-
☐	2947	Matthew Wilkinson	-	All Users	Keyholders	0	0	0	0	-

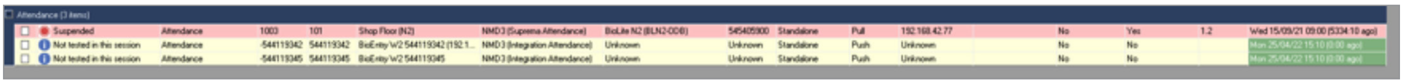


Personnel

Employee ID: 2947 First name: Matthew Last name: Wilkinson

Essential (General)

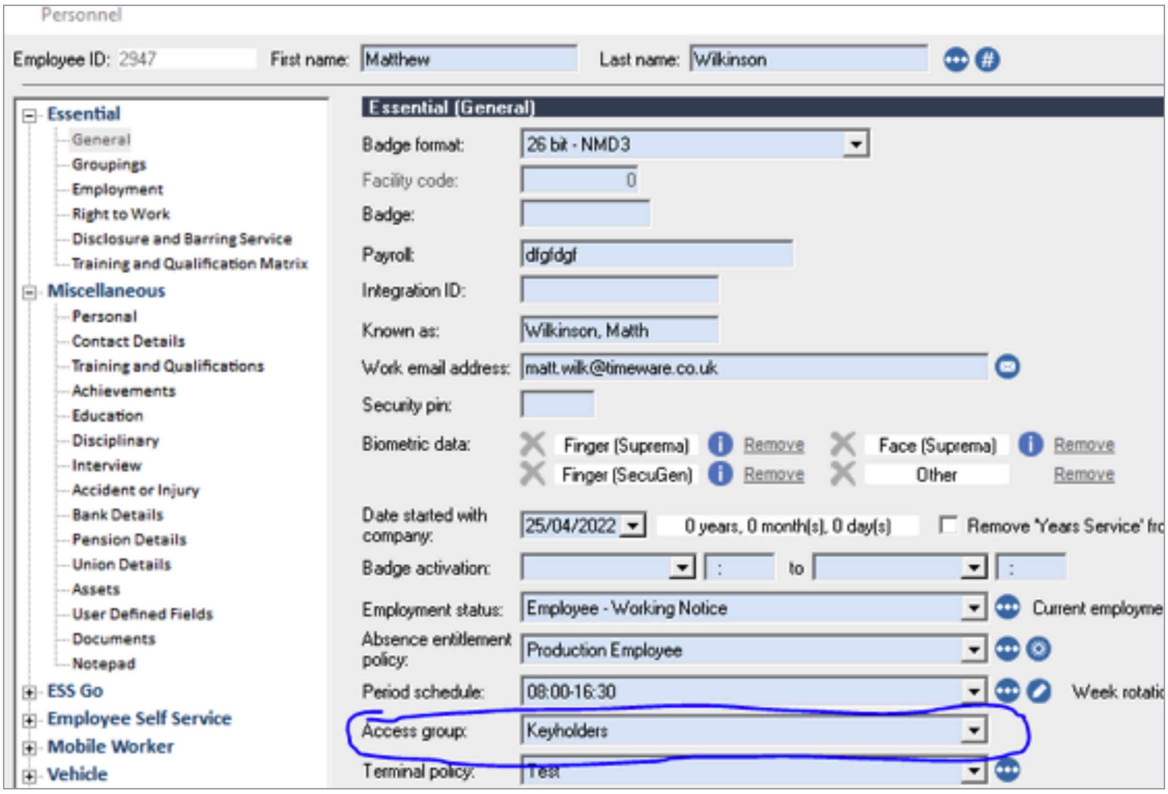
- If you go to terminal configuration, you will notice that any device that was set up in Biostar has now been brought in as an "Integration device". If you aren't wanting to bring data in from certain ones, leave them as suspended. By default, they are set as "NMD3 Integration Fire Alarm". If you are wanting to use the bookings towards access control data, then change the type to "NMD3 Integration Access Control". If it is an attendance unit, change it to "NMD3 Integration Attendance". Unsuspend all the integration devices you require and assign them to a relevant terminal group.



Attendance (3 items)

□	● Suspended	Attendance	1003	101	Shop Floor (N2)	NMD3 (Suprema Attendance)	BioLite N2 (BLN2-ODB)	545405900	Standalone	Pull	192.168.42.77		No	Yes	1.2	Wed 15/09/21 09:00 (5334:10 ago)
□	ⓘ Not tested in this session	Attendance	-544119342	544119342	BioEntry W2 544119342 (192.1...	NMD3 (Integration Attendance)	Unknown	Unknown	Standalone	Push	Unknown		No	No		Mon 25/04/22 15:10 (0:00 ago)
□	ⓘ Not tested in this session	Attendance	-544119345	544119345	BioEntry W2 544119345	NMD3 (Integration Attendance)	Unknown	Unknown	Standalone	Push	Unknown		No	No		Mon 25/04/22 15:10 (0:00 ago)

- If you go into "Personnel", you will notice we have brought in the access group(s) we created earlier on. Any new personnel record you create in timeware® you can now allocate an "Access Group" to.



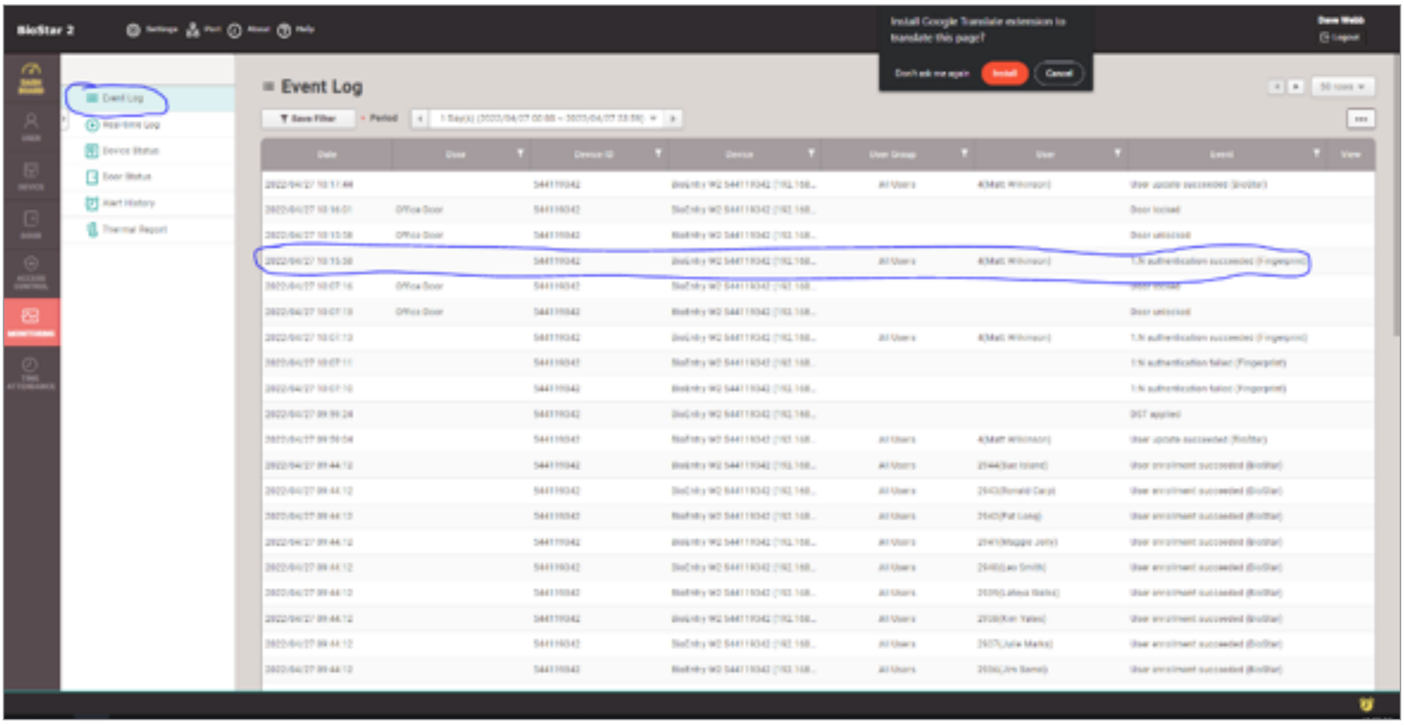
Personnel

Employee ID: 2947 First name: Matthew Last name: Wilkinson

Essential (General)

Badge format:	26 bit - NMD3
Facility code:	0
Badge:	
Payroll:	dfgfdgf
Integration ID:	
Known as:	Wilkinson, Matth
Work email address:	matt.wilk@timeware.co.uk
Security pin:	
Biometric data:	✕ Finger (Suprema) ⓘ Remove ✕ Face (Suprema) ⓘ Remove ✕ Finger (SecuGen) ⓘ Remove ✕ Other Remove
Date started with company:	25/04/2022 0 years, 0 month(s), 0 day(s) □ Remove 'Years Service' fro
Badge activation:	: to :
Employment status:	Employee - Working Notice Current employme
Absence entitlement policy:	Production Employee
Period schedule:	08:00-16:30 Week rotatio
Access group:	Keyholders
Terminal policy:	Test

- We don't synchronize biometric templates between the two systems. I have created a separate guide for pulling out enrolments from a timeware® system and uploading them into Biostar. This can be found at https://www.nmd3.com/repository/N2-0109-Suprema-Biostar-2-Migrating-devices.pdf
- With Biostar, you can enrol either through the device or through Biostar itself. If the customer would like to still enter the badge numbers in timeware®, we have developed an Event Agent script to handle this. The guide for this can be found at https://www.nmd3.com/repository/n2-0108-Datasheet-Event_Agent_Script-Biostar2_Badge_Credential_NMD3.pdf. If they are using CSN format card, the guide is at https://www.nmd3.com/repository/n2-0106-Datasheet-Event_Agent_Script-Biostar2_Badge_Credential_CSN.pdf.
- In theory that it is for the configuration of the integration. Things such as changing authentication modes (Card+Finger) for example, there are guides for on Suprema's website. If you tested a clocking now for someone you enrolled, once you get the green light (booking accepted), if you head to the "Monitoring" tab, under "Event Log", you will see the "Authentication succeeded" entry.

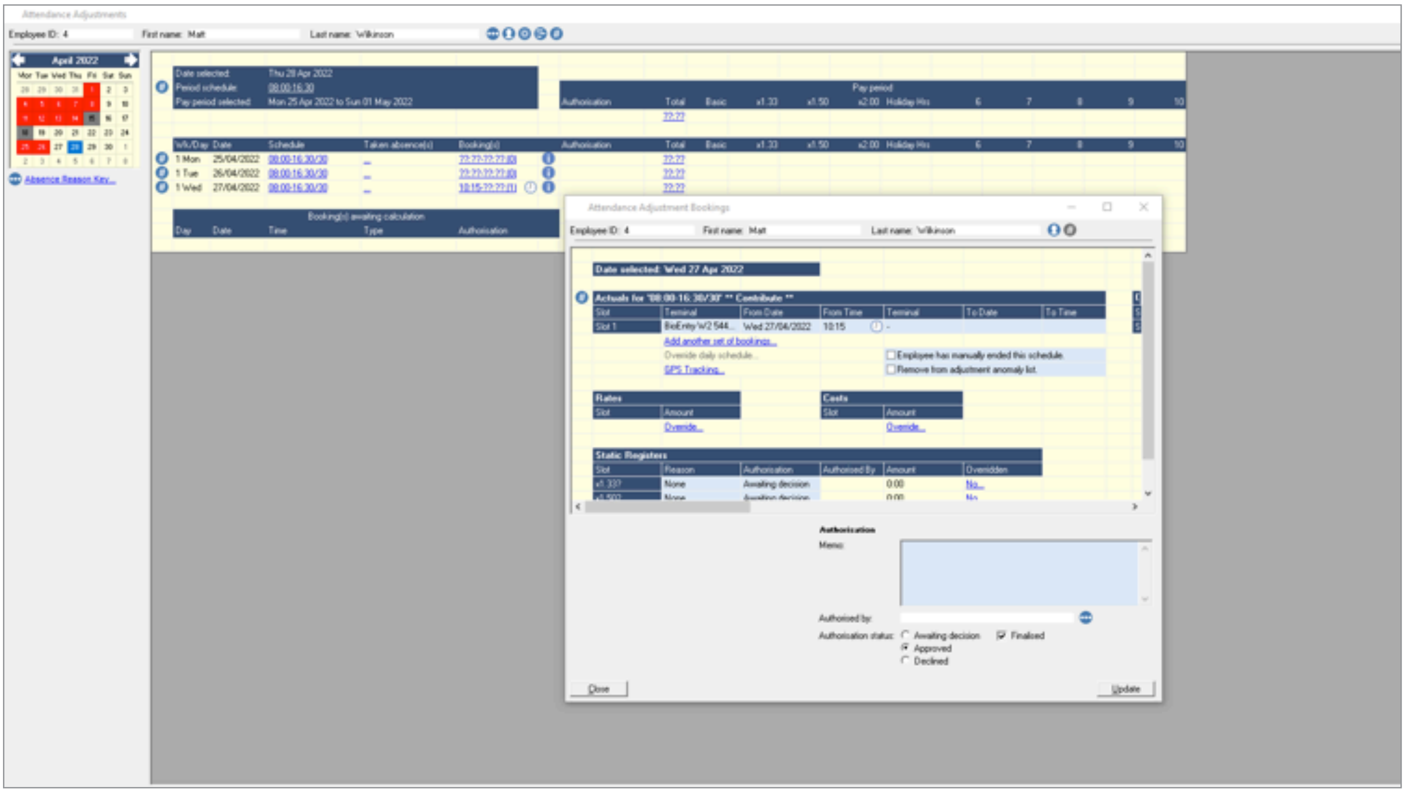


Event Log

Period: 1 Day(s) (2022/04/27 00:00 ~ 2022/04/27 23:59)

Date	Door	Device ID	Device	User Group	User	Event	View
2022/04/27 10:17:44		544119342	BioEntry W2 544119342 (192.168...	All Users	4(Matt Wilkinson)	User update succeeded (BioStar)	
2022/04/27 10:16:01	Office Door	544119342	BioEntry W2 544119342 (192.168...			Door locked	
2022/04/27 10:15:58	Office Door	544119342	BioEntry W2 544119342 (192.168...			Door unlocked	
2022/04/27 10:15:58		544119342	BioEntry W2 544119342 (192.168...	All Users	4(Matt Wilkinson)	1:N authentication succeeded (Fingerprint)	
2022/04/27 10:07:16	Office Door	544119342	BioEntry W2 544119342 (192.168...			Door locked	
2022/04/27 10:07:13	Office Door	544119342	BioEntry W2 544119342 (192.168...			Door unlocked	
2022/04/27 10:07:13		544119342	BioEntry W2 544119342 (192.168...	All Users	4(Matt Wilkinson)	1:N authentication succeeded (Fingerprint)	
2022/04/27 10:07:11		544119342	BioEntry W2 544119342 (192.168...			1:N authentication failed (Fingerprint)	
2022/04/27 10:07:10		544119342	BioEntry W2 544119342 (192.168...			1:N authentication failed (Fingerprint)	
2022/04/27 09:59:28		544119342	BioEntry W2 544119342 (192.168...			DST applied	
2022/04/27 09:58:54		544119342	BioEntry W2 544119342 (192.168...	All Users	4(Matt Wilkinson)	User update succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2544(Sian Island)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2543(Ronald Carp)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2542(Pat Long)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2541(Maggie Jetty)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2540(Leo Smith)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2539(Latoya Banks)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2538(Kim Yates)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2537(Julie Marks)	User enrollment succeeded (BioStar)	
2022/04/27 09:44:12		544119342	BioEntry W2 544119342 (192.168...	All Users	2536(Jim Send)	User enrollment succeeded (BioStar)	

- If you head back into timeware®, if you have it setup as an attendance device head to attendance adjustments for that employee and you should see the booking has been pulled through.



Attendance Adjustments

Employee ID: 4 First name: Matt Last name: Wilkinson

Date selected: Thu 28 Apr 2022
Period schedule: 08:00-16:30
Pay period selected: Mon 25 Apr 2022 to Sun 01 May 2022

Authorisation	Total	Basic	x1.33	x1.50	x2.00	Holiday Hrs	6	7	8	9	10
	??:??										

Wk/Day	Date	Schedule	Taken absence(s)	Booking(s)	Authorisation	Total	Basic	x1.33	x1.50	x2.00	Holiday Hrs	6	7	8	9	10
1 Mon	25/04/2022	08:00-16:30/30	_	??:??-??:?? (0)		??:??										
1 Tue	26/04/2022	08:00-16:30/30	_	??:??-??:?? (0)		??:??										
1 Wed	27/04/2022	08:00-16:30/30	_	10:15-??:?? (1)		??:??										

Booking(s) awaiting calculation

Day	Date	Time	Type	Authorisation

Attendance Adjustment Bookings

Employee ID: 4 First name: Matt Last name: Wilkinson

Date selected: Wed 27 Apr 2022

Actuals for '08:00-16:30/30' ** Contribute **

Slot	Terminal	From Date	From Time	Terminal	To Date	To Time
Slot 1	BioEntry W2 544...	Wed 27/04/2022	10:15	-		

Add another set of bookings...
Override daily schedule...
GPS Tracking...
□ Employee has manually ended this schedule.
□ Remove from adjustment anomaly list.

Rates

Slot	Amount
	Override...

Costs

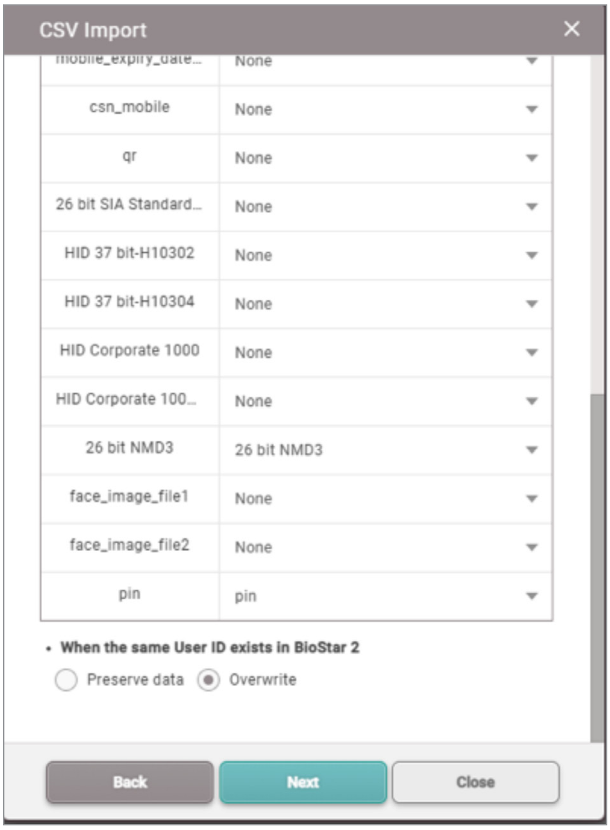
Slot	Amount
	Override...

Static Registers

Slot	Reason	Authorisation	Authorised By	Amount	Overridden
x1.33?	None	Awaiting decision		0.00	No...
x1.50?	None	Awaiting decision		0.00	No...

Authorisation
Memo:

Authorised by:
Authorisation status: ○ Awaiting decision ● Approved ○ Declined ☑ Finalised



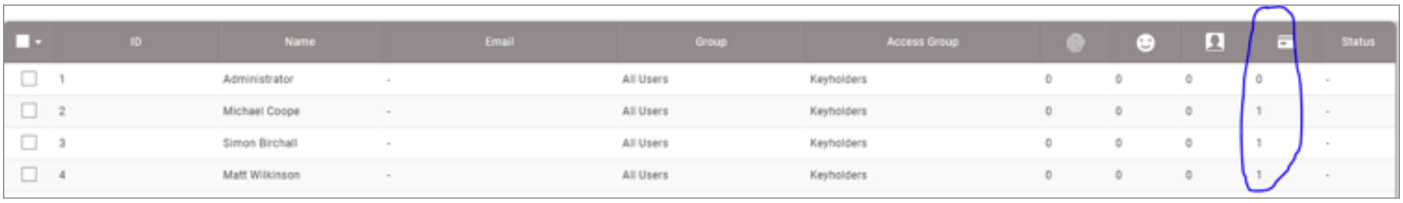
CSV Import

mobile_expiry_date...	None
csn_mobile	None
qr	None
26 bit SIA Standard...	None
HID 37 bit-H10302	None
HID 37 bit-H10304	None
HID Corporate 1000	None
HID Corporate 100...	None
26 bit NMD3	26 bit NMD3
face_image_file1	None
face_image_file2	None
pin	pin

- When the same User ID exists in BioStar 2

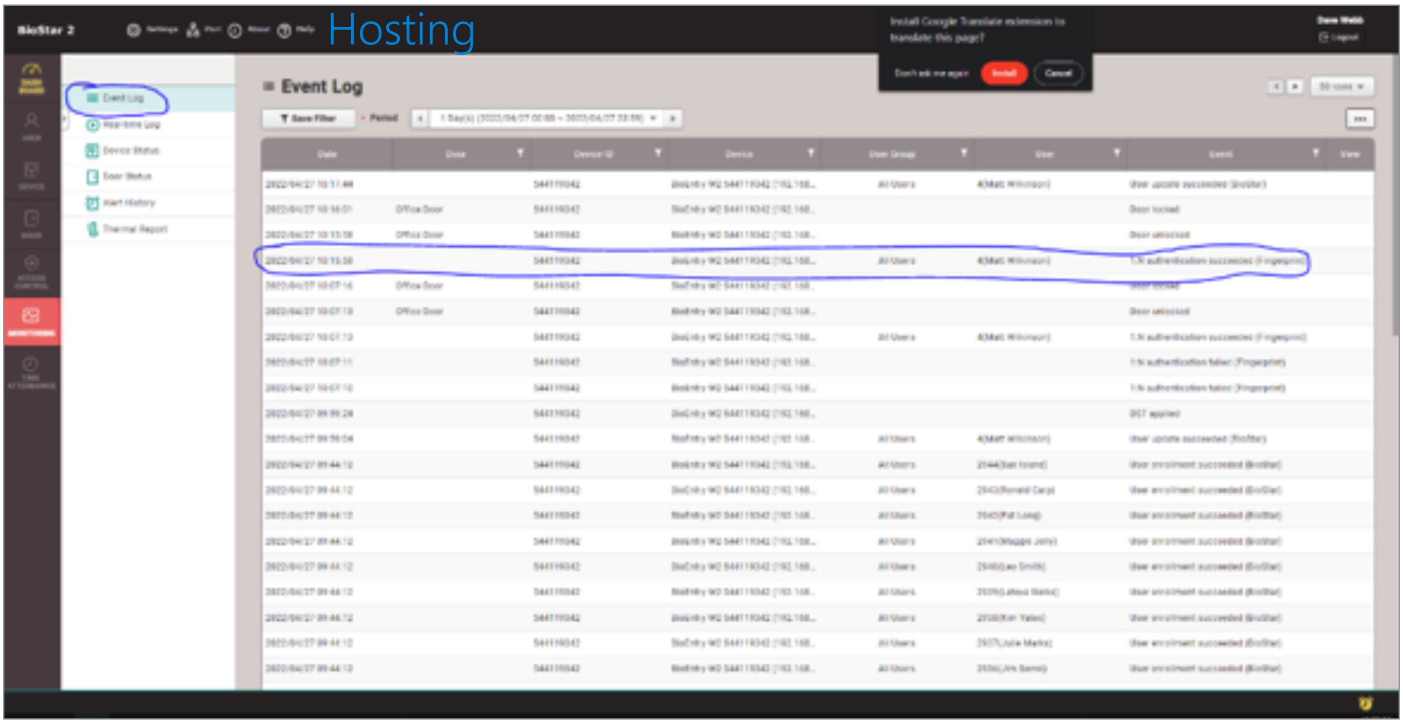
○ Preserve data ● Overwrite

- The import should run through now, taking a few moments depending on the amount of people. If you want to check it has worked, if you check the column with the card icon for employees, and it should indicate they now have a card assigned.

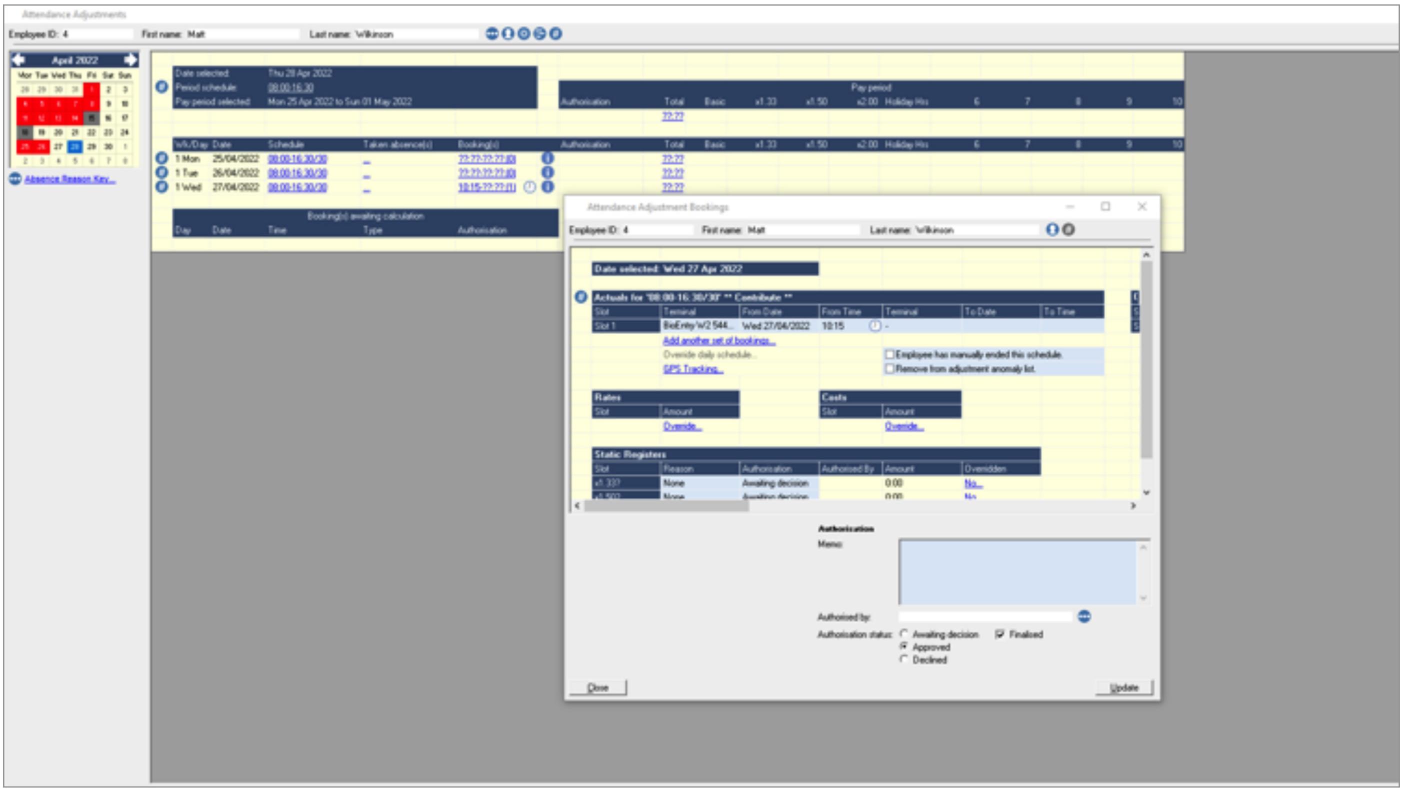


□	ID	Name	Email	Group	Access Group					Status
□	1	Administrator	-	All Users	Keyholders	0	0	0	0	-
□	2	Michael Coope	-	All Users	Keyholders	0	0	0	1	-
□	3	Simon Birchall	-	All Users	Keyholders	0	0	0	1	-
□	4	Matt Wilkinson	-	All Users	Keyholders	0	0	0	1	-

- In theory that it is for the configuration of the integration. Things such as changing authentication modes (Card+Finger) for example, there are guides for on Suprema's website. If you tested a clocking now for someone you enrolled, once you get the green light (booking accepted), if you head to the "Monitoring" tab, under "Event Log", you will see the "Authentication succeeded" entry.



- If you head back into timeware®, if you have it setup as an attendance device head to attendance adjustments for that employee and you should see the booking has been pulled through.

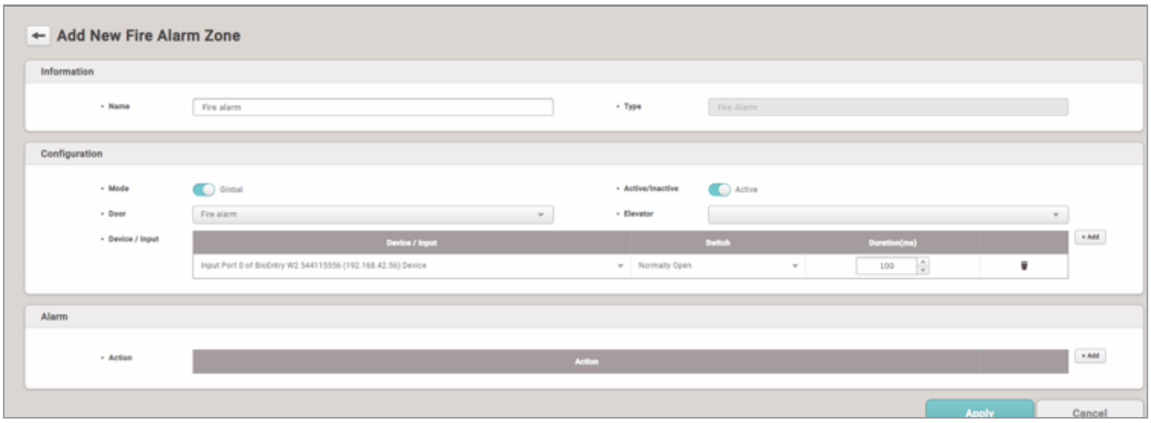


- If you have the device setup as an Access Control unit, it will then obviously show up in your access audit/real-time access activity.

Configuring a fire panel

We have the ability to print/email reports when a fire alarm is triggered, as well as multiple actions built into Biostar 2.

- Add the device the fire alarm is connected to into biostar, set it up as a door, but don't assign either the "door sensor" or "exit button" inputs.
- Go into the zone section, click "add zone", select "fire alarm" and then click "apply".
- Name the zone how you like, change the mode to "Global", and choose your "Fire Alarm" door you created earlier on. If you wanting to release other doors when the alarm goes off, select the additional doors here as well.
- On the "Device/Input" section, choose the "fire alarm" door we created earlier, and make sure it is set to "Normally Open" and "100ms".



Add New Fire Alarm Zone

Information

- Name: Fire alarm
- Type: Fire Alarm

Configuration

- Mode: Global
- Active/Inactive: Active
- Door: Fire alarm
- Elevator:
- Device / Input

Device / Input	Switch	Duration(ms)	
Input Port 0 of BioEntry W2 544115556 (192.168.42.56) Device	Normally Open	100	

Alarm

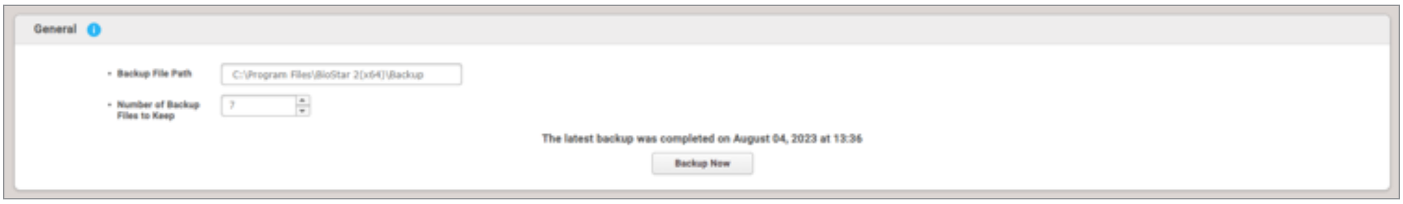
- Action

Action

- Click "apply" once finished.
- The next step is to setup the report emailing/printing. We will assume you have already configured a report to be used in the Dashboard and Report Viewer.
- Launch the Event Agent UI, and choose option 5 for "Build fire alarm command line..."
- Select the device being used as the trigger, if it is a multi site setup where a different report is setup for each site, you will need to repeat this step for each site.
- The rest of the steps you just select your report, printers and where to email it if required, just like the standard event agent reports. Once you have completed this it will generate you a command line, which is copied to your clipboard. I would save a copy of it as well just to be safe.
- Next, we need to create a service. Download the following batch file: https://www.dropbox.com/s/lrg49nr1m8injzy/Event%20Agent%20Service%20Installer.bat?dl=0
- Open the batch file in a text editor, replace the following text:
- "REPLACENAME" – replace with a name of your fire alarm setup i.e "Rochdale site Roll Call"
- "REPLACECMD" – replace with copied commandline i.e "-c xxxxxxx". Make sure there is a space after the ".exe"
- "REPLACEDESC" – replace with brief description i.e "handles emailing of Roll call report"
- Once these have been edited save the file and then run it is an admin, this will install the service for you.
- Once installed all that left is to start it up, the service then monitors the DB for certain events, when these events are present it will trigger the report to be emailed/printed.

Creating Backups

- We now have the ability to set up automated backups through Biostar. (This is only available on versions 2.9.3 or greater)
- You will need to navigate to Settings -> System Backup and then decide on a path to save your backups to.

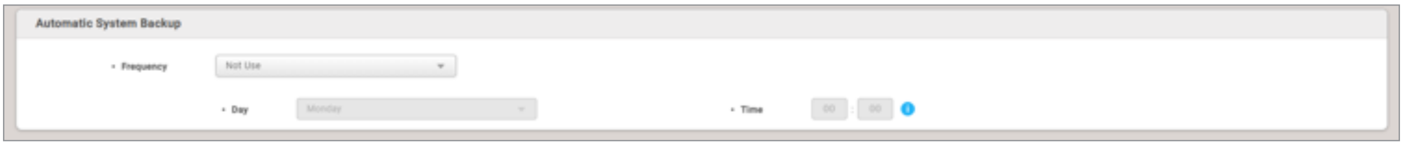


General

- Backup File Path: C:\Program Files\BioStar 2(x64)\Backup
- Number of Backup Files to Keep: 7

The latest backup was completed on August 04, 2023 at 13:36

- We need to specify how many backups to store. We recommend backing up daily and keeping the 7 most recent backups.
- Under the "Automatic system backup" tab you will need to set the "Frequency" of the Backups.



Automatic System Backup

- Frequency: Not Use
- Day: Monday
- Time: 00 : 00

- The options allow for "Daily", "Weekly" and "Monthly" Backups. We recommend a daily backup to be taken. Select a time for the backups to take place, we would recommend early morning or late at night when the system isn't being used as heavily.