

# EXgarde Suprema W2 ACU

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### Foreword

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The following symbols are used in this guide:



CAUTION! This indicates an important operating instruction that should be followed to avoid any potential damage to hardware or property, loss of data, or personal injury.



NOTE: This indicates important information to help you make the best use of this product.

### Document Control

Issue	Date Issued	Change Summary	Issued by
1	11/03/2021	Initial Release	TBA

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# 1. Overview

The EXgarde Suprema W2 ACU integration module allows the latest Suprema Biometric technology to integrate with the latest EXgarde access control software, providing a high level of security with confidence.

The integration module provides the following features.

- Ability to use Suprema W2 reader as standalone ACU
- Biometric Enrolment using Suprema W2 readers
- Template distribution to readers
- Monitor reader tamper input
- Monitor reader online/offline status.
- Display reader events in EXgarde including template download progress

### 1.1 Compatibility

The EXgarde Suprema integration module is compatible with all Suprema readers running the Suprema SDK 2 interface.

# 2. Prerequisites

The follow criteria must be met in order for the integration to function correctly.

- EXgarde 4.6 PRO or higher installed
- .Net 4.5 installed
- An additional network user
- Suprema BioEntry finger License feature enabled (required for both Standalone and TDSi ACU integration)
- Suprema W2 ACU License feature enabled (Standalone mode only)
- Adequate Biometric Users License added (amount of enrolled Keyholders required)
- All connections to Suprema readers have been established and all IP addresses recorded
- All reader serial numbers recorded
- BioStar2 software installed for reader configuration.

# 3. Setting Up Suprema

This part of the setup will need to be carried out in accordance with the Biostar2 software provided. The screenshot below is an example of the All Devices page of the Biostar2 software.



Figure 1

The numbered item is required by EXgarde to complete the setup.

- 1- Serial number of the reader
- 2- IP address of the reader
- 3- Status of the reader



CAUTION! Ensure the Wiegand Input / Output mode in the reader advanced settings is set to OUTPUT



**NOTE**: Ensure all readers have been added in the BioStar2 software and are all online

Wiegand	
Input/Output	Output
Figure 2	

BioStar 2	× +							- 🗆 ×
$\leftrightarrow$ $\rightarrow$ C $\odot$ lo	calhost/#/device/detail/544158776	5?offset=0&total=3&group_id=	1&listOffset=0&pageNum=1				•	• ≅ ☆ ♀ ★ ⊖ :
Apps 👩 sipgate   /	App 📓 BioStar 2 🚩 GARDIS ㅣ	Login - TDSi Produ						
BioStar 2	段 Setting ① About ⑦ Help							Administrator E Logout
6		Scan Finger	OFF	• 0	msec 0	msec 🔄 Fade Out		
DASH BOARD		Scan Card	OFF	* 0	msec 0	msec Fade Out		
Q		Auth Success	075		man	maac Eada Out		
usen		Auth Fail	OFF	•				
		Auth Duress						
	Trigger & Action							+ Add
	Conngalation		Trigger			Action		
CONTROL	Wiegand							
	<ul> <li>Input/Output</li> </ul>	Output		• Pul	se Width(µs)	40		
- Monte - Canada	<ul> <li>Input Format</li> </ul>	ID#2 HID 37 bit-H10302	Ŧ	• Pul	se Interval(µs)	10000		
	Output Mode	Normal 🗌 Fail C	ode Dx00 =					
							Apply	Cancel
								0

In the following example we are setting the output to 37-bit Wiegand.

Figure 3

Go to Setting -> Card Formats in the Biostar Software. Take note of the format used for the output.

😰 BioStar 2 × +						- o ×
$\leftrightarrow$ $\rightarrow$ C (O localhost/#/setting/card_format,	st/#/setting/card_format/wiegand/list?timestamp=1615464076221 💀 🍇 🏠					2 0 <b>* 0</b> :
🗰 Apps 🔮 sipgate   App 🙀 BioStar 2 🚩 GARDIS	S 📙 Login - TDSi Produ					
BioStar 2 🛞 Setting () About ()	Неір					Administrator
CASH BOARD Wiegand A Smart Card	➡ Wiegan	d				•••
USER	Wiegand ID	Name	Total Bits	Number of Fields	Number of Issued Ca	
	1	26 bit SIA Standard-H10301	26	2	0	
	2	HID 37 bit-H10302	37	1	0	
DOOR	3	HID 37 bit-H10304	37	2	0	
$\odot$	4	HID Corporate 1000	35	2	0	
ACCESS CONTROL	5	HID Corporate 1000 48bit	48	2	0	
- <del>-</del>	6		-		0	1
MONITORING	7		-		0	1
	8		-		0	1
ATTENDANCE	9	-			0	1
	10	-			0	1
	11	-			0	1
	12				0	1
	13	-	-		0	1
						. 0



Go into the TDSi Suprema folder and edit the following configuration file :-

SupremaW2Integration.exe.config. Ensure the SetTDSiWiegandConfig value equals the 37-bit Wiegand format in Figure 4 e.g. in the following example it is set to 2.

SupremaW2Integration.exe.config - Notepad				-		$\times$
File Edit Format View Help						
xml version="1.0" encoding="utf-8"?						^
<configuration></configuration>						
<configsections></configsections>						
For more information on Entity Framewo</td <td>rk configuration</td> <td>, visit</td> <td>http://go.micr</td> <td>osoft</td> <td>.com/fw</td> <td>ıli</td>	rk configuration	, visit	http://go.micr	osoft	.com/fw	ıli
<pre><section <="" name="entityFramework" sku=".NETF&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;ramework,Version&lt;/td&gt;&lt;td&gt;=v4.5" td="" type="Syste&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;m.Data.Entity.In&lt;/td&gt;&lt;td&gt;ternal.C&lt;/td&gt;&lt;td&gt;ConfigFile.Enti&lt;/td&gt;&lt;td&gt;tyFram&lt;/td&gt;&lt;td&gt;neworks&lt;/td&gt;&lt;td&gt;ec&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/configSections&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;startup&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;pre&gt;&lt;supportedRuntime version=" v4.0"=""><td>&gt;</td><td></td><td></td><td></td></section></pre>	>					
<pre><connectionstrings> </connectionstrings></pre>	n (a). Databasa	(4)			(-)"	
<pre></pre>	r={0}; Database=	{1}; Use	er ID={2}; Pass	wor:u={	[3} pr	.00
<pre> </pre>						
<pre>(appSettings) (add key="AccessControlSystem" yalue="EXgar</pre>	de" /s					
<pre>cadd key="DatabaseServer" value=".\EXGARDE"</pre>	/>					
<pre><add key="Database" value="EXGARDE"></add></pre>	12					
<pre><add <="" key="DatabaseUserId" pre="" value="ExpandeUse"></add></pre>	r" />					
<pre><add <="" kev="DatabasePassword" td="" value="GV72JPrv&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;6YzICxowhREkpa3E&lt;/td&gt;&lt;td&gt;4U+u0tb3&lt;/td&gt;&lt;td&gt;4000KJer6vs="><td>/&gt;</td><td></td><td></td></add></pre>	/>					
<add key="KeyType" value="6"></add>			<u> </u>			
<pre><add <="" key="SetTDSiWiegandConfig" pre="" value="2"></add></pre>	>					
<add key="WiegandFormatId" value="42"></add>						
<pre><add desfireappid"="" key="DesfirePrimaryKey" value="1"></add></pre>						
<add key="DesfireFileId" value="1"></add>						
<add key="TCMClientType" value="11"></add>						
<add key="SSLEnabled" value="0"></add>						
<add key="RootCertificatePath" value="Certi&lt;/td&gt;&lt;td&gt;ficates/ca.cert.&lt;/td&gt;&lt;td&gt;pem"></add>						
<pre><add kev="ServerCertificatePath" value="Cer&lt;/pre&gt;&lt;/td&gt;&lt;td&gt;tificates/server&lt;/td&gt;&lt;td&gt;.cert.pe&lt;/td&gt;&lt;td&gt;em"></add></pre>			× *			
	1 22 6 1 42	40000			0. 11. 0.0	
	Ln 20, Col 49	100%	Windows (CRLF)	UIF-	8 with BO	Μ
	Figure 5					

Once the readers have been configured correctly, ensure the BioStar 2 Services has been stopped. Failure to do so will prevent EXgarde from connecting to the biometric readers.

03							_	
ion View	Help							
<b>F </b>								
							_	 _
es (Local)	Services (Local)							
	BioStar 2 Launcher	Name	Description	Status	Startup Type	Log On As		
		AssignedAccessManager Ser	AssianedAcc		Manual (Trigg	Local System		
	Start the service	Auto Time Zone Updater	Automaticall		Manual (Trigg	Local Service		
		AVCTP service	This is Audio	Running	Manual (Trigg	Local Service		
	Description:	Background Intelligent Tran	Transfers file	Running	Automatic (De	Local System		
	BioStar 2 Launcher by Suprema Inc.	Background Tasks Infrastruc	Windows inf	Running	Automatic	Local System		
		Asse Filtering Engine	The Base Filt	Running	Automatic	Local Service		
		BioStar 2 Launcher	BioStar 2 La		Automatic	Local System		
		🖏 BioStar 2 Launcher(x64)	BioStar 2 La		Automatic	Local System		
		🖏 BioStar 2 MariaDB(x64)			Automatic	Local System		
		🥋 BioStar 2 TA Web Server(x64)	BioStar 2 TA	Running	Automatic	Local System		
		🖏 BioStar 2 Web Server	BioStar 2 We	Running	Automatic	Local System		
		🆏 BioStar 2 Web Server(x64)	BioStar 2 We	Running	Automatic	Local System		
		🖏 BitLocker Drive Encryption S	BDESVC hos		Manual (Trigg	Local System		
		🎑 Block Level Backup Engine S	The WBENGI		Manual	Local System		
		🖏 Bluetooth Audio Gateway Se	Service supp	Running	Manual (Trigg	Local Service		
		Review Support Service	The Bluetoo	Running	Manual (Trigg	Local Service		
		🎑 Bluetooth User Support Serv	The Bluetoo		Manual (Trigg	Local System		
		🍓 Bonjour Service	Enables har	Running	Automatic	Local System		
		SranchCache	This service		Manual	Network Se		
		🎑 Capability Access Manager S	Provides faci	Running	Manual	Local System		
		🤹 CaptureService_9b563	Enables opti		Manual	Local System		

Figure 6



CAUTION! Ensure the BioStar 2 Service has been STOPPED before running EXgarde Communications

# 4. Suprema W2 service

To enable communications between EXgarde and the Suprema W2 readers, the Suprema W2 Service installed must be running.

The Suprema W2 Service Manager can be used to install the service and set the start-up method. This can be found in C:\Program Files (x86)\TDSi\Exgarde\Suprema W2\ SupremaW2IntegrationServiceManager.exe

Organize 🔻 🛛 Include in librar	ry ▼ Share with ▼ New folder			80 · 🔟
☆ Favorites	Name	Date modified	Туре	Size
	🕌 fr	12/04/2017 08:56	File folder	
🥽 Libraries	SupremaW2Integration.exe	12/04/2017 09:48	Application	29 KB
	SupremaW2Integration.vshost.exe	12/04/2017 08:46	Application	23 KB
💺 Computer	SupremaW2IntegrationConfiguration.exe	12/04/2017 09:48	Application	12 KB
	SupremaW2IntegrationServiceManager.exe	12/04/2017 08:46	Application	11 KB
辑 Network	BS_SDK_V2.dll	07/04/2017 09:50	Application extens	4,634 KB
	EntityFramework.dll	09/10/2015 12:40	Application extens	5,075 KB
	EntityFramework.SqlServer.dll	09/10/2015 12:40	Application extens	607 KB
	EXgarde.Common.dll	11/04/2017 16:19	Application extens	41 KB
	Exgarde.Functions.dll	10/04/2017 14:07	Application extens	7 KB
	EXgarde.Localization.dll	11/04/2017 16:19	Application extens	143 KB
	October Digarde.TCM.dll	11/04/2017 16:19	Application extens	15 KB
	EXgardeDatabaseInterface.dll	11/04/2017 16:19	Application extens	39 KB
	🚳 ExgardeDataDomain.dll	11/04/2017 16:19	Application extens	166 KB
	ExgardeDataLayer.dll	11/04/2017 16:19	Application extens	132 KB
	EXgardeEventProcessor.dll	11/04/2017 16:19	Application extens	16 KB
	EXgardeTcmInterface.dll	11/04/2017 16:19	Application extens	50 KB
	ExgardeToSupremaUtils.dll	11/04/2017 16:19	Application extens	25 KB
	Microsoft.Web.Infrastructure.dll	08/07/2013 15:15	Application extens	45 KB
	🚳 NLog.dll	28/01/2016 14:23	Application extens	411 KB
	SupremaSdkModels.dll	11/04/2017 16:19	Application extens	42 KB
	SupremaW2Commands.dll	11/04/2017 16:19	Application extens	47 KB
	SupremaW2Common.dll	11/04/2017 16:19	Application extens	25 KB
	Supremol/ODer icoInterface dll	11/04/2017 16:10	Application autons	57 VD

Figure 7

The Suprema Service Manager can be used to control/configure the Suprema Service; the start/stop buttons can be used to start or stop the service. When you first run EXgarde, the Suprema Service will be set to run in manual mode by default. This can be changed to run in Automatic mode by right clicking on the shortcut you have just created and selecting Run as administrator, click yes on the next screen to accept running as Administrator.

The Suprema Service Manager will open and 'Start-up type' will default to Manual. To enable Automatic start-up of the service, click Stop then Uninstall, then select Automatic from the drop-down list and click Install, next click on Start. From now on every time the PC running EXgarde is started the Suprema Service will start.

🖳 Exgarde Suprema W2 Service Manager	×
Startup type	
Install Uninstall	
Start Stop	

Figure 8

# 4.1 Suprema W2 Service Configuration

If a client installation of EXgarde is being used or if EXgarde is connecting to a custom database, the connections will need to be set up for the service to function correctly.

This can be found in C:\Program Files (x86)\TDSi\Exgarde\Suprema W2\ SupremaW2IntegrationConfiguration.exe



NOTE: The configuration tool will need to be run as administrator

To access the service configuration tool, complete the login details

🖳 Login	
Tenant	Landlord
Operator	Admin
Password	XXXX
	Login

```
Figure 9
```

🖳 EXgarde Suprema W2 Sen	vice Configuration 💼 🔳 🗾
Database Server	.\EXGARDE
Database Name	EXGARDE
Database User	ExgardeUser
Database User Password	
DESfire Key	
DESfire App Id	1
DESfire File Id	1
	Update Enable SSL

Figure 10

Database server – This needs to be the address of the server. Database Name – This needs to be the name of the server . Database User – This need to be the user login. Database User Password – This needs to be the database password. DESfire Key – Encrypton key used to access the DESfire cards DESfire App ID – Location of data stored on DESfire card DESfire File ID – Location of file store within the application

Once the information entered is correct click on **Update** 

# 4.2 SSL (Secure Socket Layer) control

The SSL control feature will allow the data communicated between the service and the readers using a 4096 bit encrypted RSA key. This can also be configured to use custom certificates.

### 4.2.1 Enable SSL

To enable SSL between readers and the service, login in to the service configuration tool and click on the **Enable SSL** button at the bottom of the page.

🖳 EXgarde Suprema W2 Service Configuration 💼 🔳 💌				
Database Server	.\EXGARDE			
Database Name	EXGARDE			
Database User	Exgarde User			
Database User Password				
DESfire Key				
DESfire App Id	1			
DESfire File Id	1			
	Update Enable SSL			

Figure 11

A message box will appear informing that the service will need to be restarted.



Click on the **OK** button and restart the service to complete the process.

### 4.2.2 Disable SSL

To disable the SSL feature, log in to the configuration tool and click on the **Disable SSL** button.

🖳 EXgarde Suprema W2 Service Configuration 📃 🔲 💌				
Database Server	\EXGARDE			
Database Name	EXGARDE			
Database User	ExgardeUser			
Database User Password				
DESfire Key	•			
DESfire App Id	1			
DESfire File Id	1			
	Update Disable SSL			





A message will appear informing of disabled readers and the requirement to restart the service

Figure 14

# 4.3 DESFire Card Configuration

The current encryption method use by Suprema is the Triple DES format, therefore the Suprema Service Configuration tool can also be used to allow the readers to operate with the Triple DES card technology.

For the Triple DES cards to function with the Suprema readers, the Master key, Application ID and the File ID must be available.

To set the application and file id's, log in to the configuration tool.

🖳 Login	- • •
Tenant	Landlord
Operator	Admin
Password	****
	Login

Figure 15

The DESFire Key application and file ID's will now be available to amend.

DESfire Key	•••••	
DESfire App Id	1	
DESfire File Id	1	<u>*</u>
	Update	Enable SSL

Figure 16

Perform the necessary changes and click on the **Update** button



**NOTE**: The service will need to be restarted and an ACU reset will need to be performed

# 5. Setting up Suprema in EXgarde

# 5.1 Suprema W2 Readers connected to controllers.

Log into the EXgarde using the default password **tdsi.** This can be changed later if required.

Once logged in, you will be presented with the EXgarde Home Page. From here you will be able to add the Suprema readers to the system.



Figure 17

To begin adding the first reader, click on the ACU Wizard icon. This will guide to through the necessary steps for you to get the first reader online.



Follow the step through the process and when prompted to select the type of reader, select Suprema from the list.

🎉 EXgarde - ACU Wizard	
<u>File Edit Actions View Too</u>	Is <u>W</u> indows <u>H</u> elp
6 6	
aprde	Select the type of reader to be used on your system          Magnetic       •         Panasonic Iris       •         Suprema       •         TDSi MIFARE       •         TDSi Wiegand       •         Universal Decode       •
	Figure 19

To add further door controllers as required, click the Start Again button. When all the readers have been added, click on the finished button.

🚂 EKgarde - ACU Wizard				
File Edit Actions View Icol	ls <u>W</u> indows <b>∐elp</b>	🖬 🗂 🖻 🚥.		<b>A</b>
				U
<u>u</u>	ACU Suprema has been successfully created			Comma PC TDSHWKS05 selected
				PC connects to the Door controller using 10.0.01
				Door controller Suprema added
				Using Suprema readers
				Door controller has 1 Doot(s)
		Finish Start Again		The Door Readers are configured
		Clicking Finish will save the addition of the new ACU		Readers are assigned to Areas
	If you wish to run through the W	zard again to add another ACU, the <b>Start Again</b> button will take you back to the beginning	٠.	End End
Counter langed in : Admin - Te	unant i l'andioud	TCM. MA		
We obtained togged in two min a re		1 OW - MARIN		1

Figure 20

You will now need to set up the readers in the system. Click on the Expert Mode icon on the home page.

EXgarde - Home Page File Edit Actions View Tools Wi	ndows Help					×
00				💓 📙 🛄 ·		2
		Crets	Tores	Eccumentation		2
ACU Waard	Aras Schoole Wizard	Area Woard	Køyholder Witzerd	Group Schudule Wizard	Access Rights	
Poperator logged in : Admin - Tenant :	Landlord		TCM - Idle			14

Figure 21

From the Shortcut bar on the left-hand side, click on the **Equipment** button.

Active Tenant: Landlord	(The t
<b>Keyholders</b>	Date/T
Equipment	
Reports	
# 10	1
🖉 Operator logged in : Admin - Tenant : Landlord	
Figure 22	

To create a portal for the Suprema BioEntry W2 or BioStation readers, click on the Summary button and the select **Portals**.



Figure 23

In the middle of the screen, click on the **New** button. Entre the name of your portal in the Name field



Select the Type of Portal to be Biometric

- Type of Portal		
Type Biometric	Computer TDSI-WKS05	•
	Figure 25	

Select the Biometric Reader Model to be Suprema W2.

- Portal Configuration	
Biometric Reader Model	☑ IP Communications
	Figure 26

Check the IP communications Box and the click on Save.

Next in the Summary List on the left-hand side of the screen, select the Biometric Readers from the list.



Figure 27

Click on the **New** button to create a new Biometric reader.



Figure 28

In the Reader properties window, complete the following fields.

🎯 New 📃 Save 💃 Delete	Properties <u>C</u> olumns
Name New Bio Reader 1	
- Information	
Long Name	Comment
- Biometric Type	
Biometric Reader Type	Biometric Reader Model
Suprema W2 💌	BioEntry W2
Unit number	to reader
- Communication	
Portal	
TDSI-WKS05 : Suprema W2	•
Connected to ACU:	Reader
IR Address	IP Port
	51211

Figure 29

- **I** Type the name for the reader into the Name field.
- Select the Biometric Type as Suprema W2 and the model as BioEntry W2.
- *Enter the Unit Serial Number as specified in the Suprema BioStar2 software.*
- Select the Controller and reader to which the reader is physically connected to.
- Finally, enter the IP address for the Suprema reader and the port to 51211
- Once done, click Save.

To add more readers to the system, repeat this process until finished.

Finally, Start the EXgarde Communications application to establish connect to the door controllers and readers.

### 5.2 Suprema W2 as a standalone ACU

The new Suprema W2 integration can also operate as standalone access controllers, eliminating the requirement for access control units.

To setup a BIOentry W2 or BIOstation W2 access reader, login to EXgarde and select the expert function from the home page.



Figure 30

From the Shortcut bar on the left-hand side, click on the **Equipment** button.



Figure 31

To create a portal for the Suprema BioEntry W2 or BioStation readers, click on the Summary button and the select Portals.



In the middle of the screen, click on the **New** button. Entre the name of your portal in the Name field

Eile       Edit       Actions       View       Tools       Windows       Help         Image: Construction and Keys to ACU       Image: Construction and Keys to ACU       Image: Construction and Keys to ACU       Image: Construction and Keys to ACU	羄 EXgarde - Portals					
Actions Send configuration and Keys to ACU	<u>File Edit Actions</u>	<u>V</u> iew <u>T</u> ools	<u>W</u> indows	<u>H</u> elp		
Actions Save	C 🕑 🏠				$\frown$	
Send configuration and Keys to ACU	Actions				🛛 🎯 New	Save
	Send configuration	on and Keys to /	ACU		ivar	ne

Figure 33

Select the Type of Portal to be Biometric

- Type of Portal		
Type Biometric	Computer TDSI-WKS05	<b>•</b>
	Figure 34	

Select the Biometric Reader Model to be Suprema W2.

- Portal Configuration	
Biometric Reader Model	nunications
Figure 35	

Check the IP communications Box and the click on Save.

Next in the Summary List on the left-hand side of the screen, select the ACUs from the list.



Click on the **New** button to create a new Biometric reader.

*	New 👻 📰 Save 🛛 🗶 De
	eXpert rr eXpander
	eXcel 2 eXcel 4
	MicroGarde 1 MicroGarde 2
	Aperio Simons Voss
~	Suprema W2
	Create using Wizard



With the new ACU created, give it an appropriate name and click on the Save button.





Next, click on the Outline button in the left hand menu to access the outline view.



Select the New Bio Reader 1 from the list.



Select the Properties tab and complete the required fields

P
😹 New 💾 Save 🗶 Delete 📝 Properties 🛛 🛄 <u>C</u> olumns
Name BIOstar 2
+ Information
- Biometric Type
Biometric Reader Type Biometric Reader Model Suprema W2 💽 Suprema W2 💌
Unit number 544160183 Do not distribute templates to reader
- Communication
Portal
TDSI-WIN7DEV7 : Suprema W2
Connected to ACU: Reader
Suprema W2 💌 Reader 1 💌
IP Address IP Port           10         0         .10         .11         51211
- Access Mode
Fingerprint Only Enabled 24/7
Card Only Disabled 24/7
Card + Fingerprint Disabled 24/7

Figure 41

- **Biometric Reader Type** Select Suprema W2
- **Biometric Reader Model** Select Suprema W2
- Unit Number Enter the reader serial number (found on the back of the reader)
- Portal Select the Portal the reader is attached too
- **Connected to ACU** Select the ACU reader is attached too
- **Reader** Select Reader 1
- IP Address Enter the reader IP address
- IP Port this should be set to default 51211 unless user defined

### 5.3 Adding a Secure I/O 2 module

If a secure I/O module has been added to the BIOstar2 ACU door entry system, it will need to be set up in EXgarde.

To set up the Secure I/O module, select the ACU the module will be attached too and open the properties menu.



Enter the serial number of the I/O module found on the back of the unit into the Comments field, under the Information tab and click save. The IO unit will now be operational.

🎯 New 🔻 💾 Save  🗶 Del	ete 📝 Properties 🛛 💿 Events 🛛
Name Biostar2	Commission Mode
Information	Secure ID S/N 788682198
Site 1	•
- Communications	_
Communication Portal TDSI-WKS05 : Suprema	•
Configuration	_
ACU Type	Default Configuration
Suprema W2	DR 🗾
UID	Unit Number
Password	Auxiliary I/O Board
Additional Configuration	
Fig	ure 43

Complete the process by clicking **Save**. The Suprema reader will now been updated to recognise the I/O module.

# 6. BIOstar 2 reader door setup

### 6.1 Associate Doors to an Access Area

Click on Equipment in the Navigation Window Click on Summary Click on Doors

Computers	^
Portals	
ACUs	
Doors	
View points	
Biometric Readers	
O Inputs	-
Delaws	*
Active Tenant: Landlord	-
Equipment	
Reports	
# 10 🖄 🗰	

Figure 44

In the main window select the door you wish to define Click on the Properties button in the Toolbar

Save Properties DEvents	Door states	🌇 Schedule	<u>C</u> olumns	🗹 Check All 🛛	U
Name BIOstar door 1	Door Number		Name BIOstar door	Long Name	
Information     Long Name     Commen	ıt	_			
		Figure 45			

### 6.2 Fire door setup

To enable the door as a Fire Door expand the Options section and tick the Fire Door option. If the associated inner or outer area for the door is configured as a fire door area, then the door will become unlocked when the fire input is activated



### 6.3 Door access area setup

To setup the Door's access areas expand the Access Areas section (Figure 32) In the Outer & Inner Area drop downs, select the 2 Access Areas which are either side of the door

- Access Areas		
Outer Area	Inner Area	
Public	<ul> <li>Public</li> </ul>	•
	Figure 47	

### 6.4 Reader Location

Expanding the Additional tab will select where the reader or readers are located with respect to the Inner area.

	- Additional				
۰	Readers	I/O	Functions	Schedule	Events
Readers			Located		
	Reader 1		- 0	utside	🔿 Inside
			Figure 4	8	

### 6.5 Door Functions

Expanding the Functions tab will allow you to edit the Local & Remote Alarms and Lock Off Condition

Readers	I/O	Functions	Schedule	Events
.ocal Alarm	Delay (sei	conds) Remo	te Alarm Delay (	minutes)
.ock Off Co	ndition	140		
Door Open	ed			
Door Open 1an Trap	ed	-		
Door Open Man Trap Group	ed	Туре		

Figure 49

### Local Alarm Delay

Once the time (in seconds) has been configured, the Door may stay open for defined time before the ACU generates a Local Alarm by the operating the on-board sounder.

### **Remote Alarm Delay**

Once the time (in minutes) has been configured, the Door may stay open for a defined time before the ACU generates a Remote Alarm.

Local and remote alarms will generate an event after the door has been left ajar for the specified time.

### Lock Off Condition

The Lock Off Condition determines when the door lock strike relay will turn off after the relay has been energized.

**Door Opened** - Lock strike relay will turn off as soon as the door is opened. **Door Closed** - Lock strike relay will turn off as soon as the door is closed. **Lock strike Timed Out** - Lock strike relay will turn off after the lock strike time has elapsed.

### 6.6 Door Schedule

Expanding the Schedule tab will allow you to apply a Door Schedule (i.e., doors unlocked 9am to 5pm).

Select an available schedule from the drop-down list. Selecting Relay Off 24/7 means that the door will be locked all day, every day for normal access. Selecting Relay On 24/7 means that the door will be unlocked all day, every day.

The Apply Schedule option determines how the schedule should be applied during days defined as holidays.

		0 I	. Calcadata	
--	--	-----	-------------	--



### 6.7 Manual Door Control

If you wish to manually select the door to follow an action (overriding the door schedule), then you can do this by selecting the door in the list view and selecting one of the following actions located in the Actions Window:



Figure 51

### 6.7.1 Release Door

Releases the Door manually (as when the Egress Button is pressed) which will follow the relay opening time (default of 4 seconds).

### 6.7.2 Unlock Door for Free Access

Unlocks the Door (it will remain unlocked until another manual or scheduled event causes it to become locked).

### 6.7.3 Lock Door to Stop All Access

When a door is barred, the readers and egress buttons are disabled, preventing all access via the door.

### 6.7.4 Set Door to Controlled Access

Will cancel all manual overrides and allow the door to follow the schedule it has been attached to. Doors can also be triggered by a Fire Input. This specifies if the door is to be automatically released on an input designated as a fire input becoming active. So, when the ACU receives an input from the fire panel, if selected as a Fire Door, it will remain unlocked until the fire panel has been reset and the Fire Input processed.

# 7. Alarms

To create an alarm (using Door Forced as an example) select the Equipment Button in the Shortcut window and then select Summary from the Navigation Window



Figure 52

In the main window, select your door you wish the alarm to be applied to and click on the **Properties** button.

	_ Save	Properties	) Events	Door states	🌇 Schedule	Columns	🗹 Check All	🗌 Ui
	- Inform Long I	Name  BIOstardoor1 ation Name	Commen	Door Number 1		Name BIOstar door	Long Nar	ne
1				Figur	e 53			

Next click on the Additional Drop-Down header and then on the **Events** tab.

. A	dditional						
Re	aders	I/O	Func	tions	Schedule	Ev	ents
Eve	nt mess	age		Alarm	procedure		Relay
	Door	opened					
	Door	closed					
	Door	forced					
	Door	Local aları	n				
	Door	Remote al	arm				
	Door	Egress on					
	Door	Egress off					
	Door	Lock Strik	e				
	Door	Alarm Shu	int				
	- Hand	le state ch	anged				
	Lock	state chan	ged				
	🛛 Key c	ylinder sta	te ch				
	Door	Tamper					
	Door	Status					
	Door	Low Batte	ry				
	Quali	ty of Servi	ce				

Figure 54

Right-click on the event you wish the alarm to apply to and select **Properties** from the menu that appears .

- Additional						
<ul> <li>Readers</li> </ul>	I/O	Func	tions	Schedule	Ev	ents
Event messa	ge		Alarm p	orocedure		Relay
<ul> <li>✓ Door o</li> <li>✓ Door c</li> <li>✓ Door fo</li> </ul>	per ' losi prci	<u>D</u> isable e <u>E</u> nable ev	vent log vent log			
🗹 🚺 Door L	oca em	Propertie	25			
LIVI 📕 Door Fi	aress or	Fig	gure 5	5		

In the Event Action Details window, tick on the **Generate Operator Alarm** option box.

				X
Default				
Priority		New	Edit	
,				
			-	
<u>0</u> K	<u>C</u> ancel	Apply	<u>H</u> elp	
51				
	Default Priority 3 ÷	Default Priority 3 €	Default Priority 3  € New New	Default         Priority         3 ♀         New         Edit         QK         QK         Encel         Apply         Help



If there are no Alarm Procedures or you wish to create a new one, click on New

Event Action Details			
General Trigger Sound			
Event Message Door opened	Default		
🔽 Generate Operator Alarm			
Alarm procedure	Priority 3 🗣	New Edit	
Alarm Actions		Add New	
		Ψ.	
	<u>0</u> K	<u>C</u> ancel <u>Apply</u> <u>H</u> elp	

Figure 57

Name the procedure an in the Operator Actions box, every line entered becomes a task the operator must acknowledge and take responsibility for

larm Procedure Definition		
Procedure <u>N</u> ame Door Open Alarm		
Operator Actions		
Clear Alarm		<b>^</b>
		~
<		Þ
	<u> </u>	el <u>H</u> elp

### Figure 58

Once complete Click OK

If the event will be activating a relay or 3<sup>rd</sup> party, click on the **Trigger** tab.

Event Action Details		
General Trigger Sound		
		1
Activate Relay		Activate CCTV Viewpoint
ACU Rela	/	None
4		VUgarde Wall
Activation Action	Ţ	Tag CCTV Viewpoint None
Notify Nodes None	•	Video Verification Viewpoint None
		<u>QK</u> <u>Cancel</u> Apply <u>H</u> elp

Figure 59

For the event procedure to activate a relay (a spare relay must be available on the system) then highlight it in the relay window and select the relay from the list.

ACU		Relay	
•	III		Þ
Activation	III Action		Þ

If the action will be triggering a CCTV operation, select the item from the desired CCTV options.

Activate CCTV Viewpoint	
None	-
VUgarde Wall	
	-
Teo CCTV Viewpoint	
None	<b>_</b>
Video Verification Viewpoint	
None	-
Eiguro 61	
Figure 01	

If remote notifications are setup, select the node from the Notify Nodes dropdown.

otify Nodes	
lone	

Figure 62

If the event will be activating a sound file, click on the **Sound** tab.

Event Action Details		
General Trigge Sound		
Play a Sound file		
Available sound files		
Browse Play		
		1
	Div Cauces Shihh Lish	J

Figure 63

If you wish a WAV file to be sounded on the PC when the alarm occurs, then click on browse and select your sound file and click OK.



When you are happy with the alarm procedure, click **OK** and you will see the event icon in the door properties change to a red explanation mark

Event message	Alarm procedure	Relay
🚦 🖪 Door opened	Door Open Alarm	
🗹 🗾 Door closed		

Figure 65

When ready to save changes, you will be prompted to associate this with an Alarm Zone



Figure 66

From the drop down menu, select the Alarm Zone you wish this procedure to follow and click ok

Set Alarm Zone 🛛 🧯	X
Please select an alarm zone	
Master Zone 🔹	
<u>OK</u> _ancel	



When the action is triggered the Alarm Monitor window will pop up.

Alarm Monito	)r				
Alarm Sumr	nary ised	Acknowledged			
0	1	0			
$\Box$	0	0			
0	0	0			
	0	0			
11/04/2017 12:28 3 Door opened BIOstar door 1					
Locate Show Alarms Close Help					

Figure 68

Next click on the **Show Alarms** button, this will bring up the Alarm window.

€ile <u>A</u> larms <u>F</u> ile <u>A</u> larm <u>W</u> indows						
🔩 Active Alarm List					- • •	
Date/Time	Pri	Alarm Zone	Event	Source	Controlled by S	
11/04/2017 12:35	3	Master Zone	Door opened	BIOstar door 1	None 1	
	-	m			•	
						NUM

Figure 69

To view the alarm, double click on the alarm to bring up the Alarm Control window. This window will allow the user to action the alarms and perform the required tasks by clicking on the **Take Control** button.

larm Cont Alarm His	trol story					Σ
Date/Ti	ime	Event	Source	Detail 1	Detail 2	Detail 3
<b>!</b> 1	1/04/201	Door opened	BIOstar door 1	Detail I	Detail 2	
Alarm Pro	ocedure					
Step	Action r	equired	Status	Operator	Operator resp	onse
1 2	Check D Clear Al:	oor arm	Pending Pending			
- Current A	lotion					
Action Re Check D	quired oor		Operator	Response	]	Apply
	(	Operator with Control	None	Take <u>C</u> ontrol	Release	<u>O</u> K <u>H</u> elp

Figure 70

The Operator Response window will become live and the Apply button will now be enabled to perform the response required by the Action.

Ì	Lurrent Action		
	Action Required	Operator Response	
	Check Door	Done	Apply
1			

Figure 71

. . . ..

# 8. Schedules

The Suprema EXgarde integration will allow custom schedules to be applied to the readers providing greater levels of access capabilities.

### 8.1 Relay Schedules

Click on System Settings in the Shortcut Window and select Schedules. Then click on Relay Schedules.

Schedules Database Users 🐙 Operators					
All Schedules Alarm Zone Sc					
Active Tenant: Landlord 💽					
Equipment					
# <b>10</b> 0					

Figure 72

Click on New on the Tool Bar or click the arrow and select Relay Schedule from the drop down list.



Figure 73

A new schedule will now appear in the main window.

Next select the new schedule and click on the **Editor** in the Tool Bar and using your left mouse button, select the Access Mode you desire and drag & drop it onto the Single Day grid.

🎯 New 📼	- Save	🗶 Delete	🞽 Properties	Gitor
		Figure 7	4	

Then by hovering the mouse pointer over the edge of the box, expand it to your desired time. To fine tune the period starts, and period ends times you can use the up and down arrows in the 'hh mm' boxes



If your days are going to be following the same time, then you can copy & paste the mode and time to other days in the week.

To select the different days, use the Up & Down arrows



When the time schedules have been set up, click on Save

Now you can associate the Schedule with your Relay In the same window, expand the List Menu Select what relays you wish to follow the schedule by ticking them

	Name	Rela	ACU	^
10	Door 1 alar	3	M1 Slave 1	
	Door 1 Lock	1	Master 2	
Ŷ	Door 1 Lock	1	M2 Slave 1	
8	Door 1 Lock	1	M2 Slave 2	
1	Door 1 Lock	1	Master 1	
\$	Door 1 Lock	1	TDSi EXcel4	
8	Door 1 Lock	1	M1 Slave 1	
8	Door 1 Lock	1	eXpert Dem	~

Click on **Save** once the setup is complete.

The new schedule will now be displayed in the Lock Strike properties menu under the **Additions, Schedules** tab

Save 📝 Properties 🛛 🗿	) Events 🛛 🔍 Inputs 🔑 Keys 🔚
Name BIOstar Lock Strike	Relay Number
- Information	
Long Name	Comment
- Options	
🔽 Enabled	Display as Lockstrike
- Activation	
Trigger	
Door	<b>v</b>
Select Door	Trigger Event
Door 1	🔽 Door Lock Strike 🔽
- Additional	
Hold Time Schedule	Pulse Schedule Events
Schedule	Apply Schedule
Test Schedule 1	Every day 💌
Fial	ure 78

If you have more schedules configured, these will be displayed in the drop-down menu.

- Additional		
Hold Time Schedule	Pulse Schedule	Events
Schedule	Apply Schedule	
Test Schedule 1	Every day	<b>•</b>
Relay Un 24/7 . Relay Schedule 1	<b>^</b>	
Test Schedule 1		
Test Schedule 2	-	

Figure 79

The selected schedule can also be apply with conditions. Three pre-set conditions are available.

- Additional			
Hold Time	Schedule	Pulse Schedule	Events
Schedule		Apply Schedule	
Test Schedule 1	<b>•</b>	Every day	-
		Every day Only on Holidays Every day except Ho	lidays



Every day – Schedule will apply to everyday Only on Holidays – Schedule will only apply on holidays Every day except Holidays - Schedule will apply to every day except Holiday periods

### 8.2 Biometric Schedules

As with the relay schedules, biometric schedules can be applied with the principles. Click on System Settings in the Shortcut Window and select Schedules. Then click on Biometric Schedules.

😘 Schedules 🕞 Database Users 🛛 🚽 Operators					
🛪 Options 😅 Netcam type list					
All Schedules 🔗 Access Group S					
Area Schedules 🔑 Relay Schedules					
Alarm Zone Sc., Biometric Sche					
Active Lenant: Landlord					
Keyholders					
Equipment					
Reports					
*					

Figure 81

Click on New on the Tool Bar or click the arrow and select Biometric Schedule from the drop down list

🎯 New 👻 📃 Save 🛛 🗶 De	lete 📝 Pro	perties
Access Group Schedule Relay Schedule Area Schedules Alarm Zone Schedule <mark>Biometric Schedule</mark>	Name	Comm
Group Schedule Wizard Area Schedule Wizard		

Figure 82

A new schedule will now appear in the main window.

	Name	Long Name	Comment	Туре
🗹 🍟	Biometric Sche			Biometric Schedule
	Disabled 24/7			Biometric Schedule
	Enabled 24/7			Biometric Schedule

Figure 83

Next select the new schedule and click on the **Editor** in the Tool Bar and using your left mouse button, select the Access Mode you desire and drag & drop it onto the Single Day grid.

🎯 New	Ŧ	_ Save	🗶 Delete	🧪 Properties	4 Editor
			Figure 8	34	

Then by hovering the mouse pointer over the edge of the box, expand it to your desired time. To fine tune the period starts, and period ends times you can use the up and down arrows in the 'hh mm' boxes



If your days are going to be following the same time, then you can copy & paste the mode and time to other days in the week.

To select the different days, use the Up & Down arrows



When the time schedules have been set up, click on **Save.** The new schedule will now be displayed under each of the Access Mode

🎯 New 📃 Save ,	Columns 🚺 🕅 🗶				
Name BIOstar2					
+ Information					
- Biometric Type					
Biometric Reader Ty Suprema W2	Pe Biometric Reader Model           BioEntry W2				
Unit number 544160189 Do not distribute templates to reader					
+ Communication					
Access Mode					
Fingerprint Only	Enabled 24/7				
Card Only	Disabled 24/7				
Card + Fingerprint	Disabled 24/7				
-	Figure 87				

If you have more schedules configured, these will be displayed in the drop down menu against each method of entry.



# 9. Biometric Enrolment Reader

To specify a reader for enrolment, Click on Tools and select Options

🎉 EXgarde - Tenants	
File Edit Actions View	Tools Windows Help
S 🔊 🟠	Options Event <u>P</u> rocedures
Fig	ure 89

From the options, select **Biometric Enrolment**.





Next, scroll the top bar until the Suprema BioEntry Finger option appears.

📑 New 📃 Save 🗶 Delete
System Option
s Finger Panasonic ET Iris Suprema BioEntry Finger
Suprema Version 1 💌
Enrolment Unit ID 0 🗍 Use Finger Pod
COM Port O Use Serial
IP Address         Port           0 . 0 . 0 . 0         10001
Admin ID Admin Password (To Use with BioEntry Lite)
Default Key Box Default Key Technology General Use Microcard 💌

Figure 91

Enter the following details into the fields

- Suprema Version Set to 2
- Enrolment Unit ID Reader Serial number
- IP address Reader IP Address
- Port set to 51211

💼 New 🔚 Save 🗶 Delete	
📂 System Option	
🔩 Finger 👘 Panasonic ET Iris	Suprema BioEntry Finger
Suprema Version	
Enrolment Unit ID	
544158774 📃 Us	e Finger Pod
COM Port	
0	🔿 Use Serial
IP Address Port	
10.0.10.5 51211	💿 Use IP
Admin ID Admin Password 1 1234	(To Use with BioEntry Lite)
Default Key Box 🦯	Default Key Technology
General Use	37-bit Wiegand 🗾 🚽

Figure 92

# 10. Adding a Keyholder to EXgarde

To set up and keyholder on the EXgarde system, click on the **Keyholders** button on the Shortcut Bar.



Click on the Keyholders tab and select the All keyholders from the list

keys 👔 Keys 👔 Access Groups 👔 Badge Designs		
Name	Tenant	
All Key Holders	Landlord	
	Figure 94	

Click on the **New** button to create a new Keyholder. This will allow full access to the Biometric integration features of the software.

- Enter the user's name into the **Name** field.
- Enter **Key to issue** number in the **Keyholder Keys** section.
- Change the Type to 37-bit Wiegand and type in a key number. This is the number used to identify that keyholder in both the fingerprint template and also door controller.

Click on the **Save** button when done.

*	
Name	
New Keyholder 1	
<ul> <li>Keyholder Information</li> </ul>	
Long Name	Comment
<ul> <li>Keyholder Keys</li> </ul>	
Key to issue 12345678	Type 37-bit Wiegand

# 11. Adding a Keyholder Biometric Template

With the Keyholder entered into the system, click on the Biometrics tab at the top of the screen.

% (A) (A)	
🖾 😈 🔍 Bave 🗶 Delete 💌 🖉 Properties 🖉 Search 🔑 Issue K 💡	🚯 Biometrics 📝 Ph
💿 Show events 🛛 📮 Keyholder access 🛛 🚷 Export Keyholders 🛛 🔡 Tagged events	s 🔎 Keys 🔡 Colum
Figure 96	

With the Biometric window now open, click on the Type of biometrics and select Suprema Finger and from the Associate Key drop down, select the keyholders 37-bit Wiegand key



Next, click on the radial button of the finger to be enrolled and the click Capture.



The window below will pop up prompting you to present the finger twice on the reader to enrol



Figure 99

If the template has been captured successfully, the below message box will appear.



If however, the template was not successfully captured, the below message will appear and you will have to recapture the template.





With the template now captured, click on the **Store** button to save the template to the database. This will also send the template to all applicable readers.



To test the system, present your finger to the reader. If the system is operating correctly the reader will indicate that the print has been accepted.

# 12. Reloading templates to readers

To reload templates to readers firstly select the reader from either the Outline View figure 92 or the main window figure 63



🎯 New 📕	Save 🗶 🕻	Delete 🛛 達 Prope	rties <u>C</u> olumn	s 🛛 🗹 Check All	🗌 Uncheck
Name	2	Long Name	Comment	Biometric Rea	Biometric
🗆 🍰 Supre	:ma 1			Suprema W2	BioEntry V
🗹 🍰 Supre	ima 2			Suprema W2	BioEntry V

Figure 104

Next click on **Reload Templates** from the Actions windows.

Actions	
Instant Report 🛞 Reload Templates	

Figure 105

The action will display Action Processed while the templates are being loaded

Actions		
Instant Repo	rt ssed	
Action Proce	ssed	

Figure 106

The action will also be displayed in the event window.

📰 Details 🔻 💽 Go	Stop 🦻 Filter 📲 Period 👻	From 21/02/2017 15:33 -	To 21/02/2017 15:33 - All
Date/Time	Event	Source	Detail 1
<b>21/02/2017 15:37</b>	Operator Reload Biometric Templates	Admin	Suprema 1
21/02/2017 15:37	Biometric Reader Download Successful	Suprema 1	
Figure 107			

# 13. Commissioning Mode

When creating a new Biometric ACU in EXgarde, you can tick Commission Mode to delay communications to the reader during database configuration.



Once you have fully configured the ACU and its child objects you can turn off configuration mode and this will tell EXgarde Suprema W2 service to start communication to that ACU.

# 14. Troubleshooting

### **Connection Issues**

- Check RJ45 is connected, and unit is powered.
- Check unit can be pinged.
- Check correct IP address has enter and matches unit settings.
- Check Suprema service has correct firewall rights

### **Distribution Error**

- Check serial number entered matches unit.
- Check unit is displayed online in EXgarde.

### **Reader Shown Offline**

- Check IP address and port are correct.
- Check the EXgarde Suprema service is running.
- Check conflicting services are not running I.E. BIOstar service
- Check connection I.E., can you ping unit?



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