

Suprema Integration with Paxton Net2

ADMINISTRATOR GUIDE

Version 1.05

English

EN 102.00.SIWP V1.05A

CONTENTS

Introduction	3	Upgrading firmware	18
Target Audience	3	Connecting a device	18
Features	3	Removing a device	19
System diagram	3	Other settings	19
Installation	4	Users	21
System environment	4	Users overview	21
Compatible systems and devices	4	Selecting a card	21
Installing the Suprema Integration with Paxton Net2	5	Enrolling a PIN	22
		Enrolling fingerprint	22
		Enrolling a face	24
		Enrolling a visual face remotely	26
Getting started	10	Monitoring	37
Activate the Paxton Net2 OEM Client	10		
Home	12	Audit Trail	38
Devices	13		
Devices overview	13	Accounts	39
Device registration	14		
Uploading users registered from devices	16		
Editing device settings and information	17		
Resending configuration	18		

CONTENTS

Settings **40**

Global Device Configuration 40

Visual Face 41

Server Setting 43

Enrollment Helper Client **45**

Enroll Credentials with Enrollment Helper 45

Troubleshooting **49**

Appendices **50**

Disclaimers 50

Copyright Notice 50

Open Source License 50

Introduction

Target Audience

This document describes the integration between Suprema biometric devices and Paxton Net2 Access Control system using the Suprema Integration with Paxton Net2.

This document is intended for OEM Clients. The OEM Clients require basic knowledge of the Paxton Net2 and Suprema biometric devices.

Features

Suprema Integration with Paxton Net2 is a middleware that allows the Paxton Net2 Access Control System to communicate with the Suprema biometric devices, which can register a variety of credentials to users from the Net2, and to manage connected devices. With Suprema Integration with Paxton Net2, you can easily setup and build the Biometric Management System for the Net2 using Suprema biometric devices.

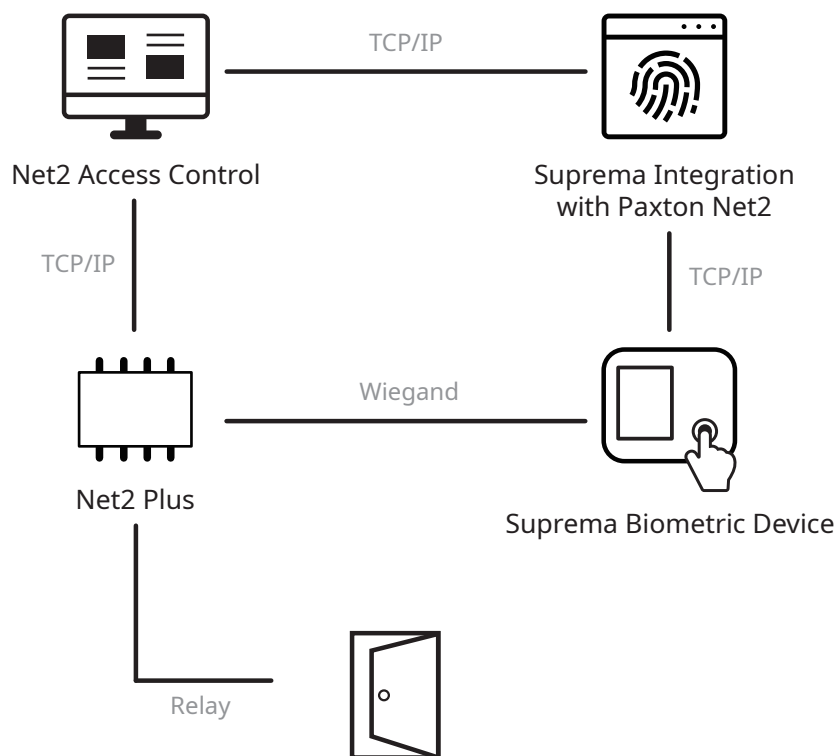
Suprema Integration with Paxton Net2 provides the following features.

- **Enable biometrics:** Not only the RFID cards and PINs but also fingerprints and face as credentials.
- **Easy user management:** No need to register or manage users separately because user data on Net2 Access Control system is synchronized in real time.
- **Easy enrollment and management:** Allows to register the user's credentials directly from the device.
- **Enterprise-level configuration:** Allows to connect and manage up to 1,000 Biometric Devices.



- For more details on the functionality of Paxton Net2 access control system, see the user manuals for Net2.

System diagram



Installation

System environment

Suprema Integration with Paxton Net2 operates normally in the same system environment as Paxton Net2.

You can find the minimum system requirements for Paxton Net2 at <https://www.paxton-access.com/systems/net2/access-control-software/net2-software-compatibility-and-support/>.

Check the support conditions before installing the Suprema Integration with Paxton Net2.

Compatible systems and devices

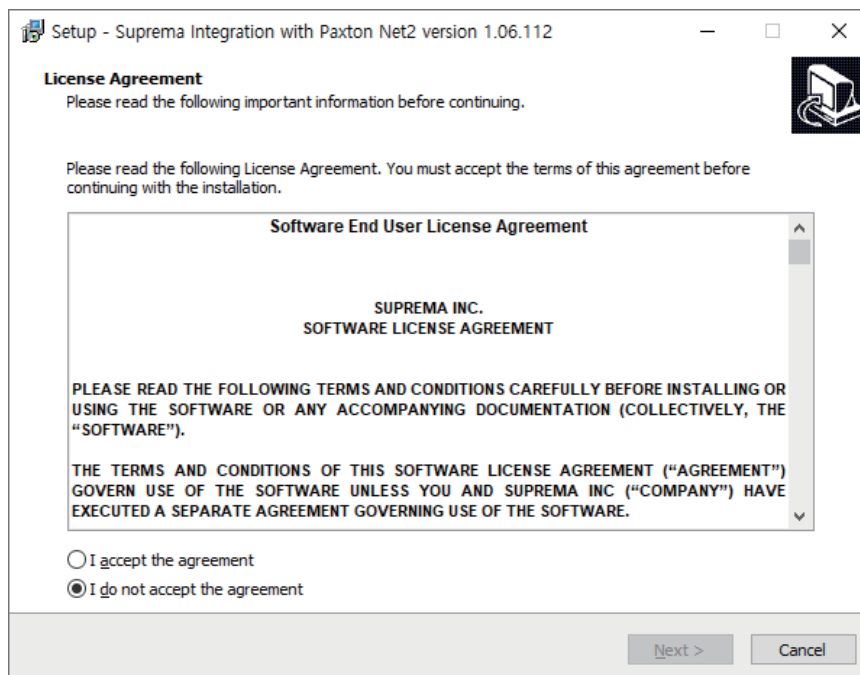
- Operating system
 - Microsoft Windows 8 or later
- Paxton Net2 Access Control
 - V6.01.8319.4827
- Suprema Biometric Device
 - FaceStation F2 FW v1.1.1 or later
 - FaceStation 2
 - FaceLite
 - BioStation 2
 - BioStation A2
 - BioStation L2
 - BioLite N2
 - BioEntry W2
 - BioEntry P2
- USB Fingerprint Scanner
 - BioMini Plus 2

Installing the Suprema Integration with Paxton Net2

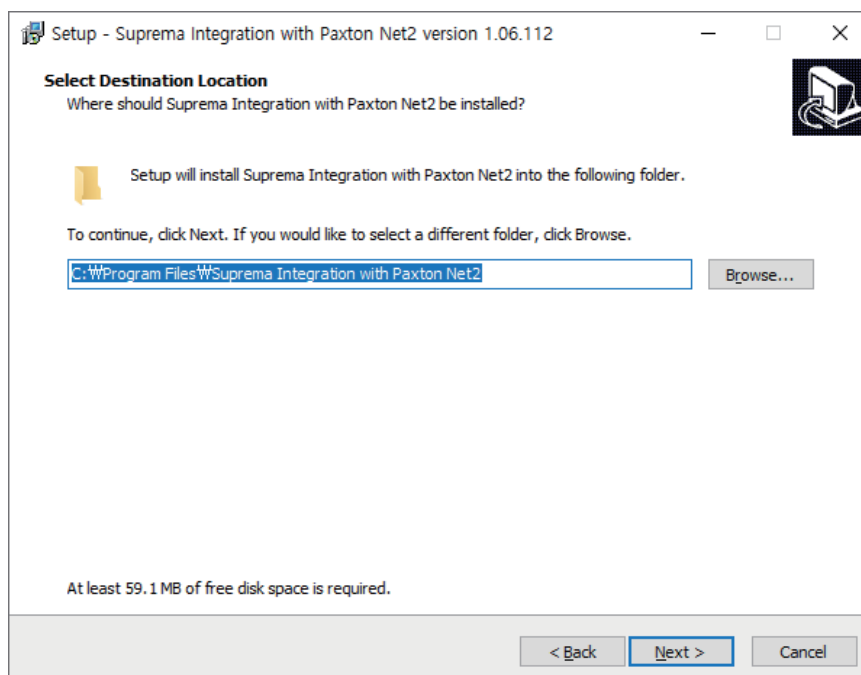


- This section describes how to install the Suprema Integration with Paxton Net2. For more details on the installation of the Paxton Net2 System, see the manuals for the Net2.

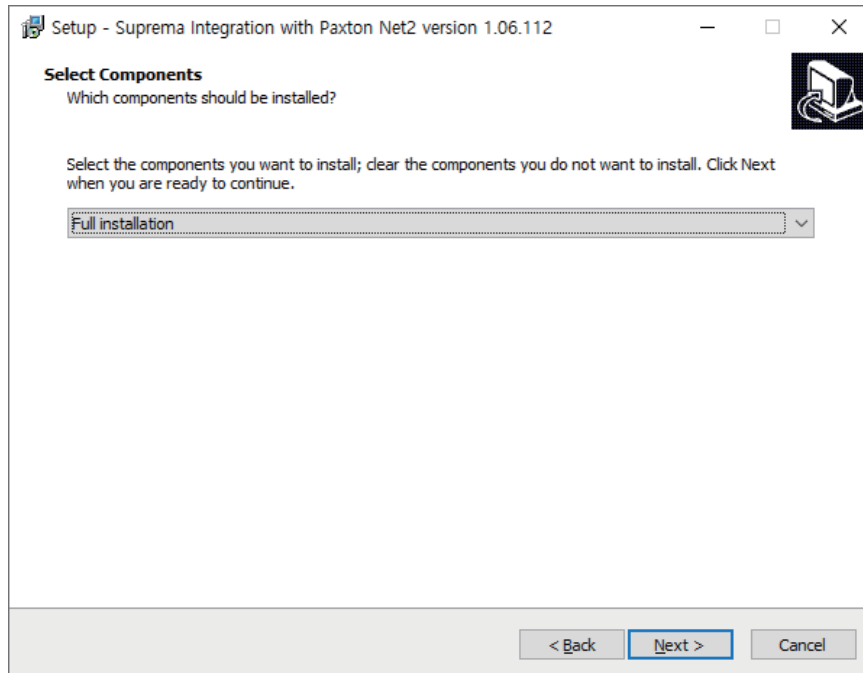
- Run the downloaded setup program.
(ex. 'Setup.for.suprema.integration.with.paxton.net2.x64.x.xxx')
- To continue the installation, select **I accept the agreement** and click **Next**.



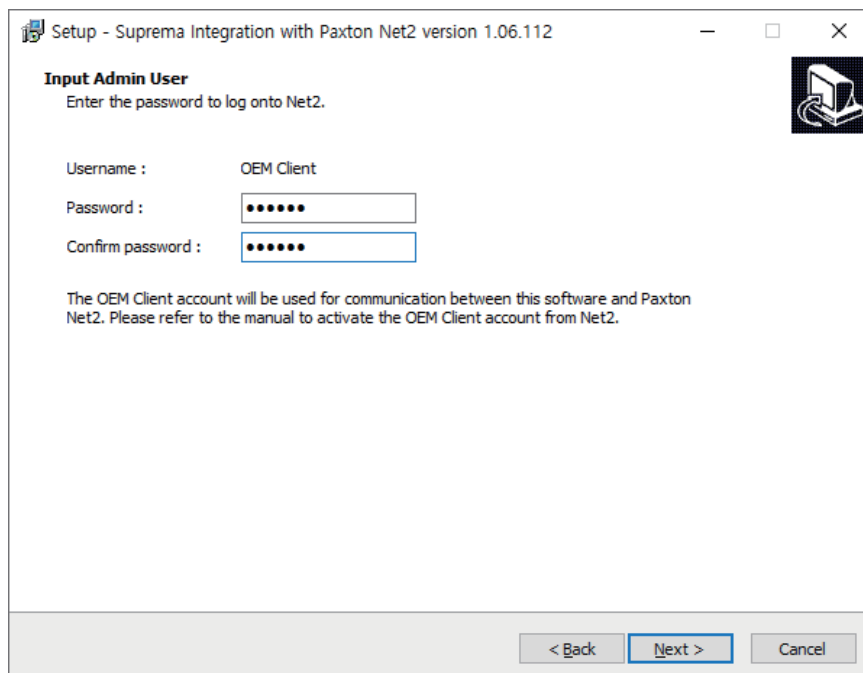
- Click **Next** after setting a path for Suprema Integration with Paxton Net2 to be installed.



- Click **Next** after selecting the components to install.

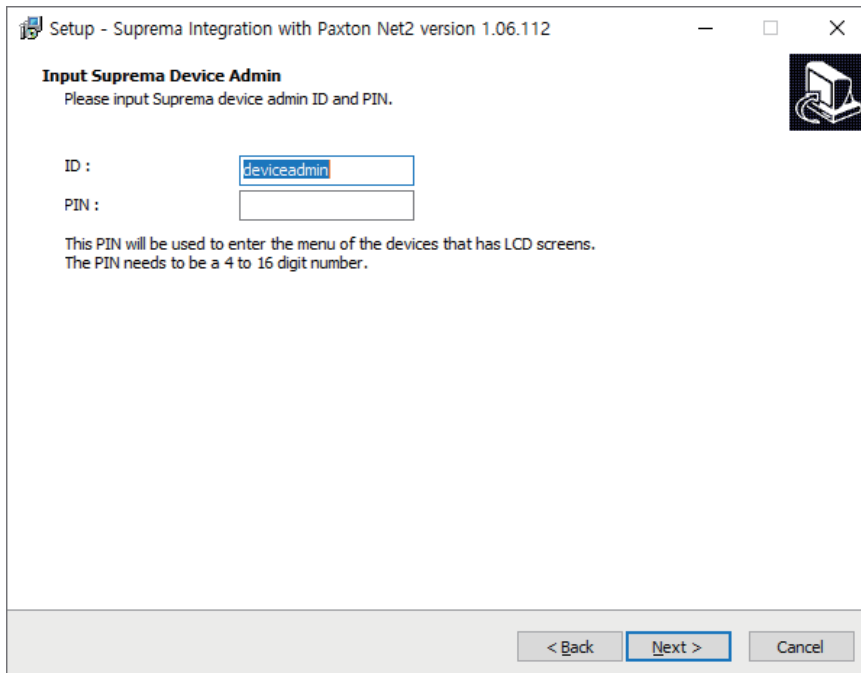


- Enter the password for OEM Client account and click **Next**.



- The OEM Client account must be set up to sync user information stored in Net2 Access Control. Activate the OEM client account by referring to Activate the Paxton Net2 OEM Client.

- 6 Enter the Suprema device admin ID and PIN, and then click **Next**. The ID and PIN set in this step will be used when you log in to Suprema Integration with Paxton Net2 or to access the devices.



The screenshot shows a window titled "Setup - Suprema Integration with Paxton Net2 version 1.06.112". The window contains the following text and fields:

Input Suprema Device Admin
Please input Suprema device admin ID and PIN.

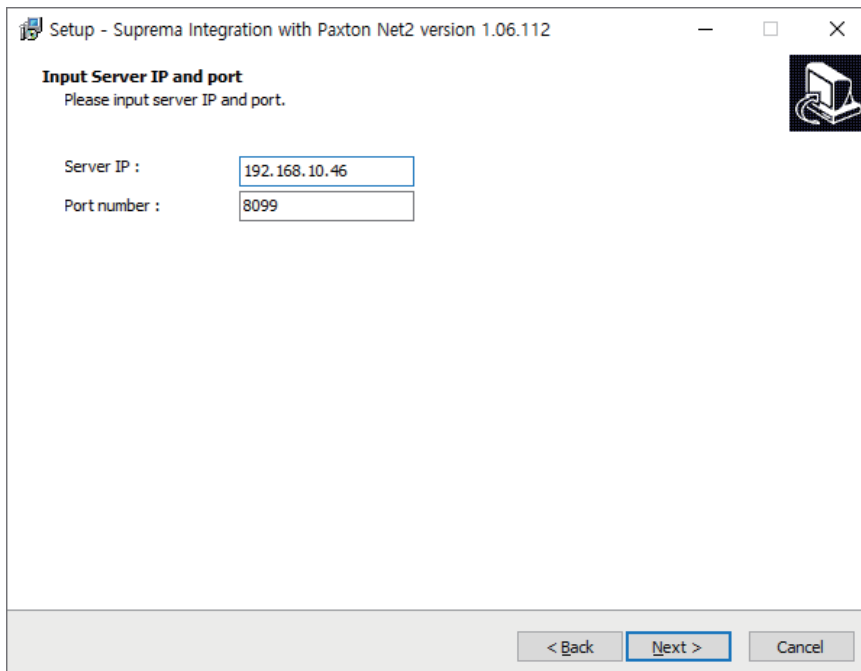
ID :

PIN :

This PIN will be used to enter the menu of the devices that has LCD screens.
The PIN needs to be a 4 to 16 digit number.

At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

- 7 Input the server IP and port number.



The screenshot shows a window titled "Setup - Suprema Integration with Paxton Net2 version 1.06.112". The window contains the following text and fields:

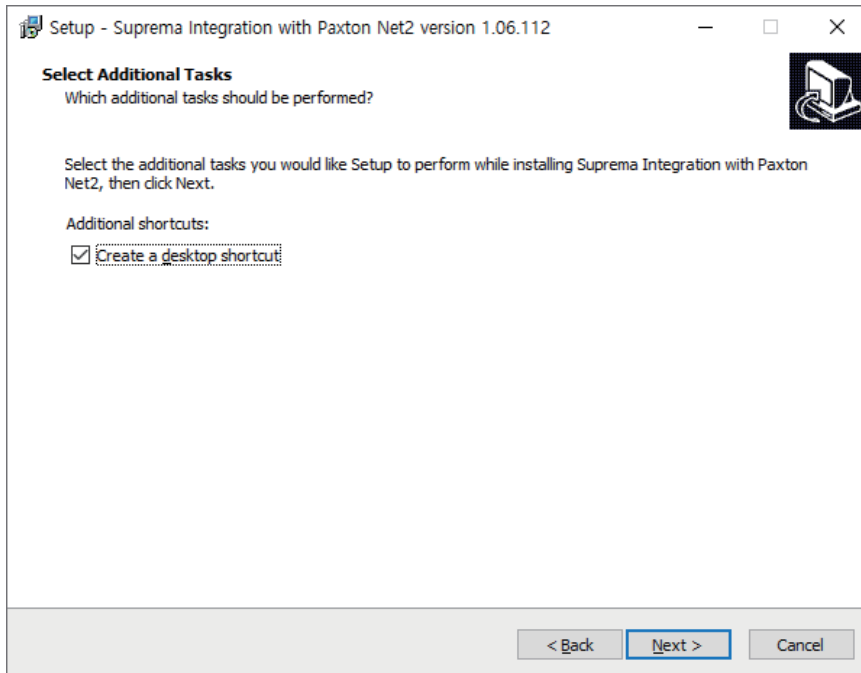
Input Server IP and port
Please input server IP and port.

Server IP :

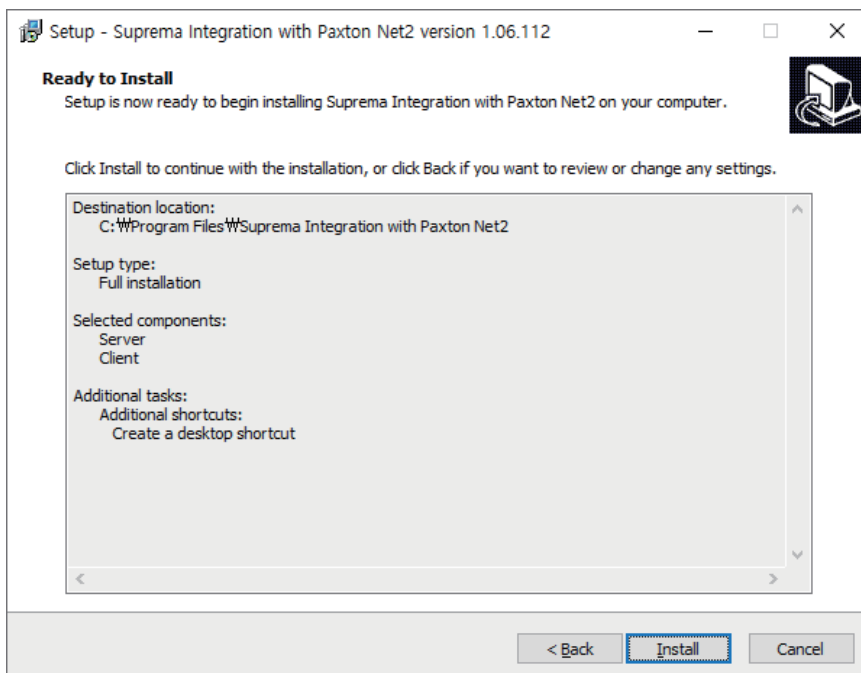
Port number :

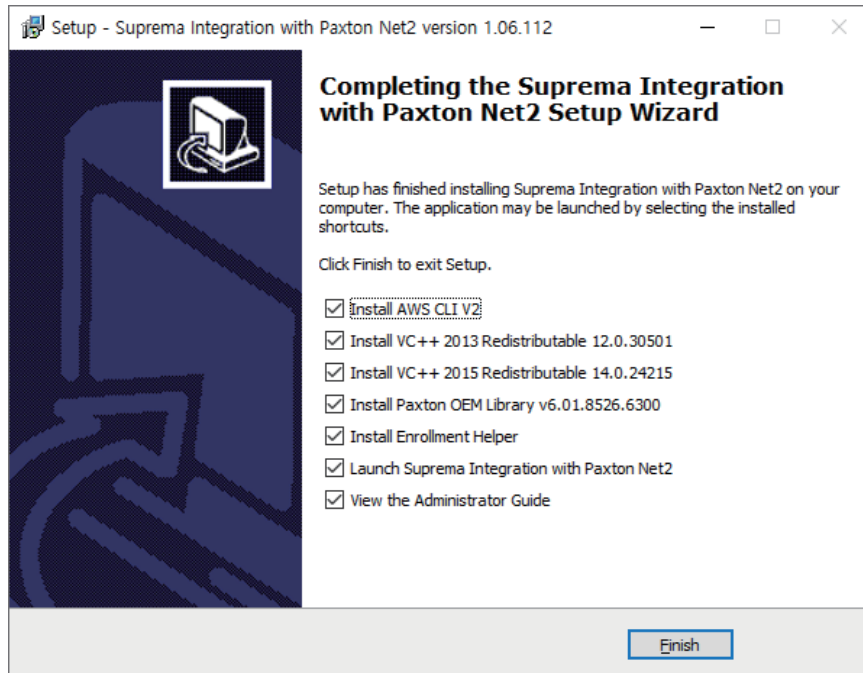
At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".

- 8 To create a shortcut on the desktop, select **Create a desktop shortcut** and click **Next**.



- 9 If ready to install, click **Install**.



10 Select whether to install additional program and click **Finish**.

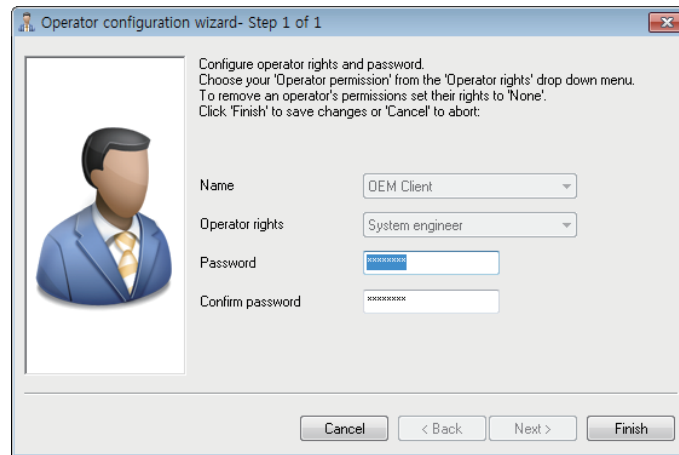
- If you install the Enrollment Helper, you can also enroll fingerprints by opening a window for fingerprint enrollment directly from the Net2 Access Control system. For more information on the Enrollment Helper, refer to Enrollment Helper Client.

Getting started

Activate the Paxton Net2 OEM Client

In order to use Suprema Integration with Paxton Net2, you must first activate the OEM Client on Paxton Net2.

- 1 Run **Net2 Access Control**.
- 2 Click **Net2 operators** and double-click **OEM Client**.
- 3 Enter the desired password in the **Password** and **Confirm password** field.



- 4 Click **Finish** to activate the OEM Client.

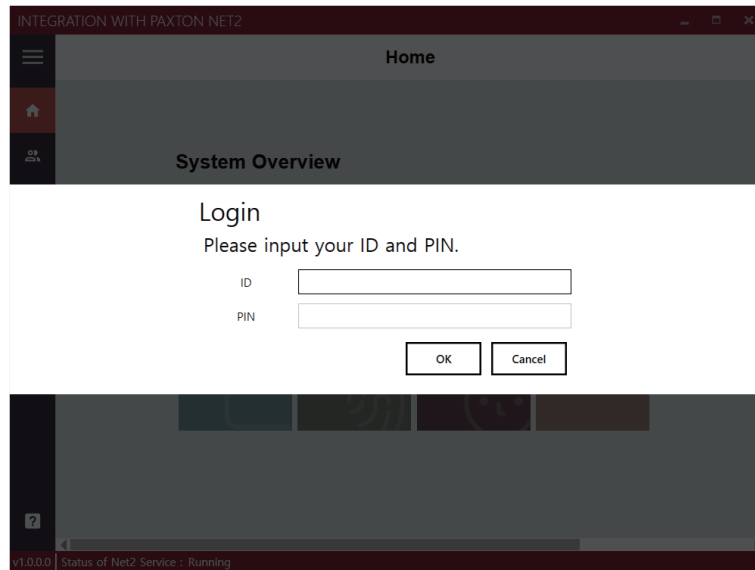


- For more details on the Net2 Access Control system, see the manuals for the Net2.

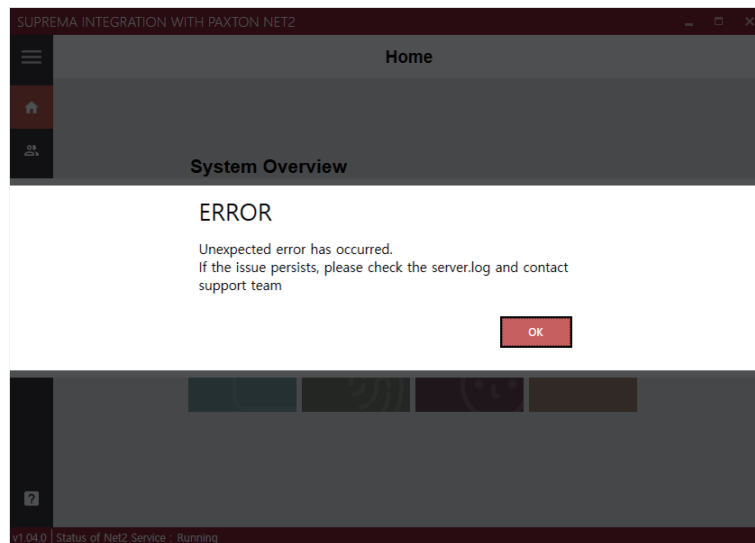
Login

Log in with the device administrator account.

The ID is '**deviceadmin**', and PIN is the password you set when you installed Suprema Integration with Paxton Net2.

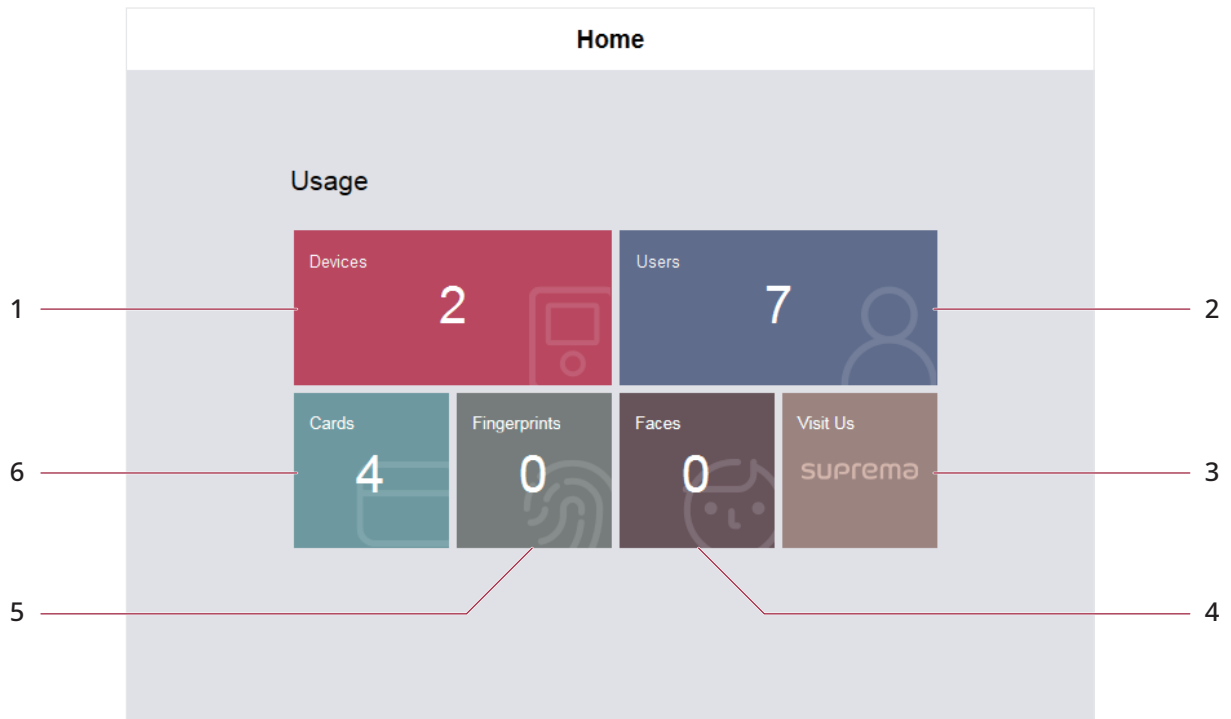


If there is an error logging in, the message below is displayed. Try again by entering the ID and PIN correctly. If this error persists, check the server.log and contact the Suprema support team.



Home

The **Home** menu is the starting point for accessing all menus of the Suprema Integration with Paxton Net2. You can also check the number of registered devices, users, faces, fingerprints, and cards.




No.	Description	No.	Description
1	View the number of connected devices.	4	View the number of registered faces.
2	View the number of registered users.	5	View the number of registered fingerprints.
3	Access the Suprema website.	6	View the number of registered cards.

Devices

Devices overview

You can use the Devices menu to add, delete or edit registered devices, fetch the user information registered within the device to the server or upgrade the firmware.




ID	NAME	TYPE	DIRECTION	IP	PORT	STATUS
547832712	Facelite	Server To Device	192.168.14.240	51211	disconnected	
546832506	Biostation 2	Server To Device	192.168.14.221	51211	connected	

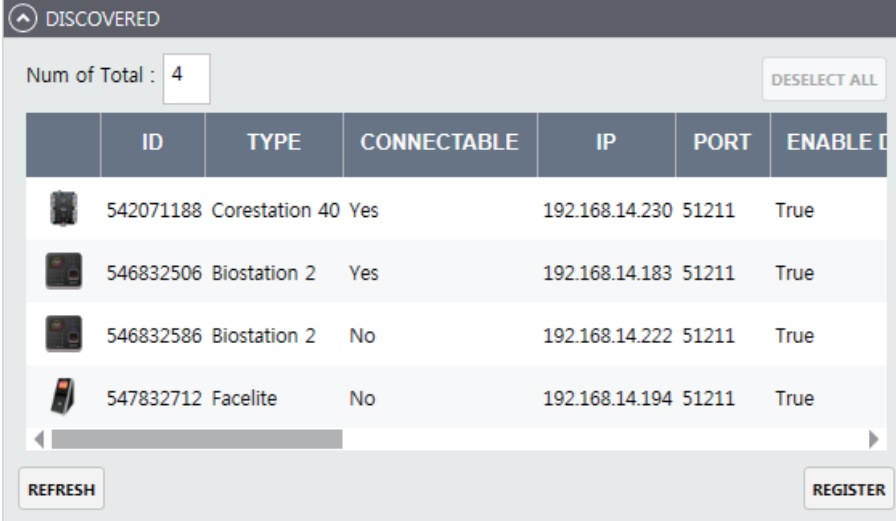
- **Search Device:** You can search for devices connected to Suprema Integration with Paxton Net2 and register them.
- **Add Device:** You can add a device by entering the IP of the device.
- **View Users:** You can see a list of users stored on devices.
- **Resend Config:** You can apply device settings configured in the **Settings** menu to devices.
- **Upgrade F/W:** You can upgrade the device's firmware.
- **Connect:** You can reconnect the selected device to the Suprema Integration with Paxton Net2.
- **Remove:** You can remove the selected device from the Suprema Integration with Paxton Net2.

Device registration





Adding a device automatically

You can automatically search for devices connected to Suprema Integration with Paxton Net2 and register them. Before searching for devices, check whether they are correctly connected. When adding multiple devices at once, it will be more convenient to know the ID, Type and IP address information of each device in advance.

- 1 Click .
- 2 Click **Search Device**. All available devices will appear.



The screenshot shows a window titled "DISCOVERED" with a "Num of Total : 4" indicator and a "DESELECT ALL" button. Below is a table with columns: ID, TYPE, CONNECTABLE, IP, PORT, and ENABLE D. The table contains four rows of device information.


	ID	TYPE	CONNECTABLE	IP	PORT	ENABLE D
	542071188	Corestation 40	Yes	192.168.14.230	51211	True
	546832506	Biostation 2	Yes	192.168.14.183	51211	True
	546832586	Biostation 2	No	192.168.14.222	51211	True
	547832712	Facelite	No	192.168.14.194	51211	True

At the bottom of the window are "REFRESH" and "REGISTER" buttons.

- 3 Select a device to connect and click **REGISTER**.

Adding a device manually

You can add a device manually by entering the IP of the device.

- 1 Click .
- 2 Click **Add Device**.
- 3 Enter the IP of the device to register and click **Okay**.

Add Device

Input the IP of the device.

IP

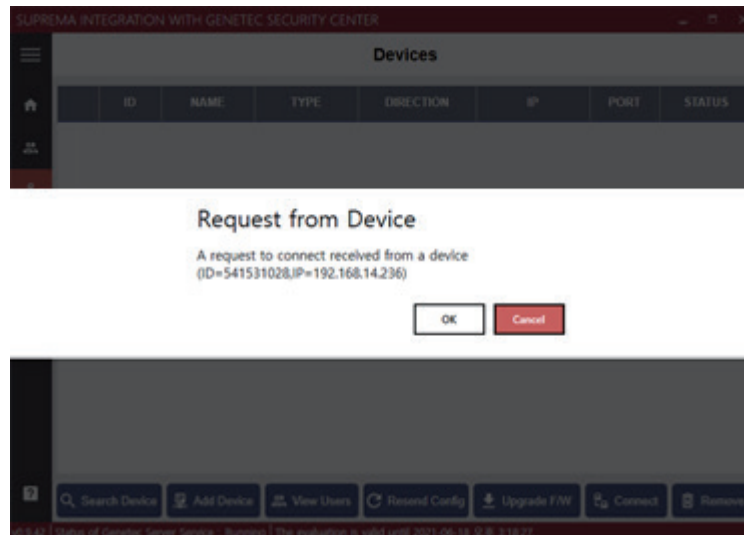


- Up to 1,000 biometric devices can be connected.

Sending a connection request from the device

You can send a connection signal from the device to Suprema Integration with Paxton Net2 with the input information directly. The steps may vary depending on the device you use. For more details, refer to the manual. In this section, BioStation A2 is in use.


- 1 On the device, press **■** → **NETWORK**.
- 2 Press **Server** and activate **Device -> Server**.
- 3 Enter the IP address on **Server IP**. The device will automatically request the connection to the server.
- 4 On the server, press **OK**.



















The device is added on the list.

Uploading users registered from devices

You can view the list of users stored on the device and import the users to the server.

- 1 Click .
- 2 Select a device to view the list of users and click **View Users**.
- 3 Select all users to upload to the server and click **Upload from the device**.

USERS TO UPLOAD									
	USER ID	NAME					EXPIRED AT	DISABLED	ACCESSIBLE
	manager	manager	0	0	0	False	12 31, 2030 11:59	false	<input type="checkbox"/>
	deviceadmin	deviceadmin	0	0	0	True	12 31, 2030 11:59	false	<input checked="" type="checkbox"/>
	201	ky	0	2	0	False	12 31, 2030 11:59	false	<input type="checkbox"/>
	200		1	1	0	False	12 31, 2030 11:59	false	<input type="checkbox"/>
	33	AAA	0	2	0	False	12 31, 2030 11:59	false	<input type="checkbox"/>
	6	9093	1	0	0	False	12 31, 2030 11:59	false	<input checked="" type="checkbox"/>
	5	9092	1	0	0	False	12 31, 2030 11:59	false	<input checked="" type="checkbox"/>
	4	9091	1	0	0	False	12 31, 2030 11:59	false	<input checked="" type="checkbox"/>
	3	9090	1	0	0	False	12 31, 2030 11:59	false	<input checked="" type="checkbox"/>
	2	JaceyRyu	0	0	0	False	12 31, 2030 11:59	false	<input checked="" type="checkbox"/>
	1	SimbaPark	0	0	0	False	12 31, 2030 11:59	false	<input checked="" type="checkbox"/>
	0909		0	1	0	True	12 31, 2030 11:59	false	<input type="checkbox"/>

Editing device settings and information

You can edit information of registered devices.

- 1 Double-click the device to edit. Or, right-click on the device and click **Device Config**.
- 2 Edit the necessary fields of the INFORMATION, AUTHENTICATION, and NETWORK.

The screenshot shows a configuration window for a device. It is divided into three main sections, each with a red bracket and a number indicating the editing step:

- 1 INFORMATION:** This section contains text input fields for 'Name' (with a 'RENAME' button), 'Device Type' (set to 'Biostation 2'), 'Device ID' (set to '546832506'), and 'Firmware ver.' (set to '1.8.0(2019/08/06 02:37:57)').
- 2 AUTHENTICATION:** This section contains a grid of radio button options for authentication modes: 'Card or Biometrics', 'Biometric Only', 'Card Only', 'Biometric + PIN', 'Card + PIN or Biometric + PIN', 'Card + PIN or Biometric', 'Card or Biometric + PIN', 'Card + Biometric', 'Card + PIN', and 'Card + Biometric + PIN'.
- 3 NETWORK:** This section contains a 'DHCP' checkbox (checked) with a 'Use' label, and text input fields for 'IP Address' (192.168.14.221), 'Subnet Mask' (255.255.255.0), 'Gateway' (192.168.14.1), 'Device Port' (51211), 'Direction' (radio buttons for 'Server to Device' and 'Device to Server'), 'Server Address', and 'Server Port' (51212). An 'APPLY' button is located at the bottom right.

No.	Item	Description
1	INFORMATION	Edit the name of the device or see the device information. <ul style="list-style-type: none"> • Name: Enter a device name. • Device Type: View the device type. • Device ID: View the device ID. • Firmware ver.: View the kernel version.
2	AUTHENTICATION	Configure the authentication modes of the device.
3	NETWORK	Configure the connection settings. <ul style="list-style-type: none"> • DHCP: Select this option to allow the device to use a dynamic IP address. • IP Address: Enter network settings of the device. • Subnet Mask: Enter network settings of the device. • Gateway: Enter network settings of the device. • Device Port: Enter a port to be used by the device. • Direction: Select the direction. • Server Address: Enter the IP address of the Suprema Integration with Paxton Net2 server. • Server Port: Enter the port number of the Suprema Integration with Paxton Net2 server.

- 3 Click **APPLY** to save the settings.

Resending configuration

You can apply device settings configured in the **Settings** menu to devices.



- Make sure that **Global Device Configuration** is set up correctly before running **Resend Config**.

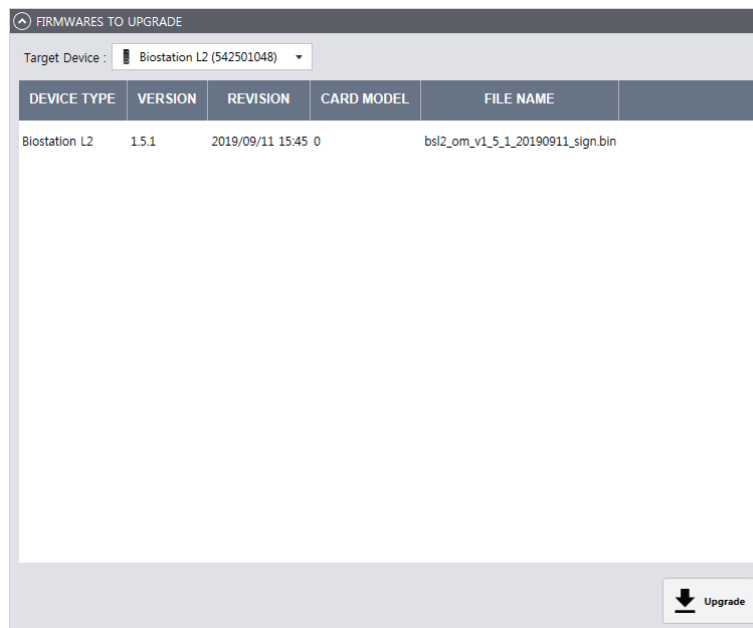
- 1 Click .
- 2 Click a device to apply settings and click **Resend Config**.
If you click **Resend Config** with nothing selected, the settings are applied to all devices.

Upgrading firmware

You can easily upgrade the firmware on any device connected to Suprema Integration with Paxton Net2 without any additional connection or action.

Copy the firmware files that you have downloaded to the following folder. If the folder does not exist, you need to create it.

- 1 Click .
- 2 Select a device and click **Upgrade F/W**.
- 3 Select the firmware file and click **Upgrade**.




Connecting a device

You can reconnect the selected device from the Suprema Integration with Paxton Net2.

- 1 Click .
- 2 Select devices to reconnect and click **Connect**.


Removing a device

You can delete the selected device from the list.

- 1 Click .
- 2 Select devices to delete and click **Remove**.

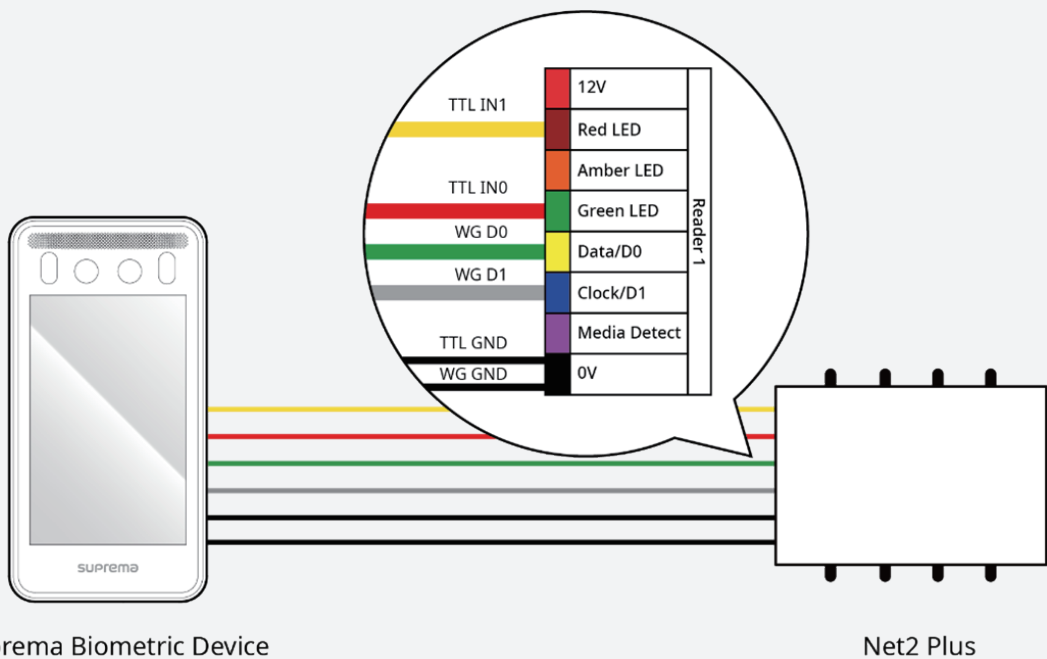
Other settings

You can reboot or reset to factory default by selecting individual devices. You can also edit other settings, such as a lock or unlock the device.

- 1 Click .
- 2 Right-click the device for which you want to edit the settings.
- 3 Select and set the item to edit.
 - **Rename:** You can change the device name.
 - **Resync:** Delete all user data in the device and send the user data of the server.
 - **Reboot:** You can restart the device.
 - **Here I am:** You can check the location of the device by making a sound on the selected device.
 - **Lock:** You can lock the device. When a device is locked, the user cannot authenticate on that device.
 - **Unlock:** You can unlock the device.
 - **All alarms off:** You can turn off all alarms on the device.
 - **Factory Reset:** You can delete all data and root certificate on the device and reset the settings. The network settings will not be reset.
 - **Delete All Users:** Delete all user data.
 - **Device Config:** You can edit the device settings.
 - **Warp Image:** You can extract a visual face by uploading a user image stored on the device.

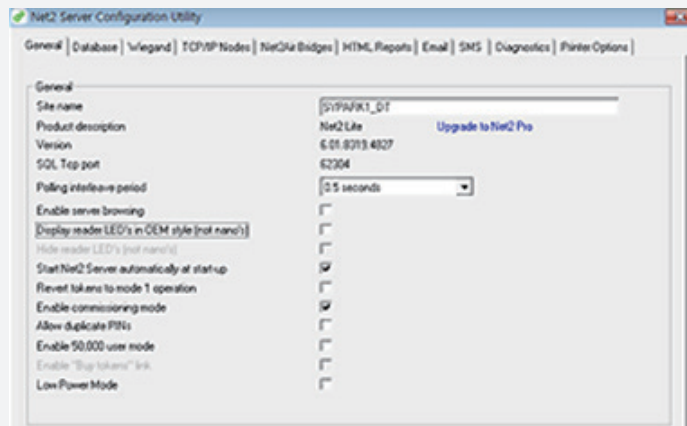


- It is possible to light up a LED status indicator or display a message on Suprema's devices when the access is granted or denied by using input signals.



To use this feature, you must upgrade the firmware included in the setup package and deselect the **Display reader LED's in OEM style (not nano's)** option.

- 1 Click  **Start** → **All programs** → **Net2 Access Control** → **Net2 Configuration Utility**.



- 2 Click **General** and deselect **Display reader LED's in OEM style (not nano's)**.
- 3 Click **Apply** to save the setting.

Users

Users overview

The list of users registered in the Paxton Net2 Access Control system is automatically synchronized to Suprema Integration with Paxton Net2. Also, if the users are deleted or registered in the Paxton Net2 Access Control system, the revised list is automatically synchronized in real-time to Suprema Integration with Paxton Net2. You can register various credentials by selecting a user from the Users menu in Suprema Integration with Paxton Net2.

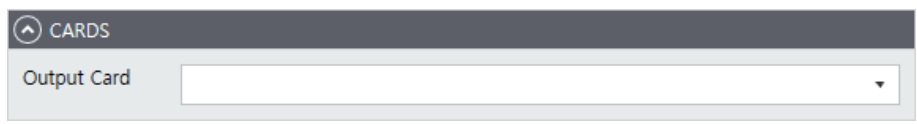
ID	NAME	EMAIL	Card	Fingerprint	Face	Pin	EXPIRE	LAST U
7476	Jon Control3	[REDACTED]	0	0	0	False	0	2021-03-16
7475	Jon Control2	[REDACTED]	0	0	0	False	0	2021-03-16
7474	Jon Control1	[REDACTED]	0	0	0	False	0	2021-03-16
7473	dwayne suprema2	[REDACTED]	0	0	0	False	0	2021-03-16
7472	Dwayne Suprema1	[REDACTED]	0	0	0	False	0	2021-03-16
7471	Sharon Whitcomb	[REDACTED]	1	0	0	False	0	2021-03-16
7469	Andy Buchan	[REDACTED]	1	0	0	False	2022-06-01	2021-03-16
7468	Abygayle Millard	[REDACTED]	1	0	0	False	0	2021-03-16
7466	Dale Robbie	[REDACTED]	1	0	0	False	2021-04-01	2021-03-16

- **Search...:** Search for users by entering the username or ID.
- **Get All users from Net2:** Import user data manually stored in the Net2 Access Control system.
- **Resend to All Devices:** Send users to all devices connected to Suprema Integration with Paxton Net2.
- **Resend Mail:** Send the visual face remote enrollment link to users via email. Users can access the link from their mobile device and enroll their visual face directly.
- **Manage Cards:** Select the card value to communicate with Net2 via Wiegand.
- **Manage Fingerprints:** Add, edit, or delete a user's fingerprint template.
- **Manage Faces:** Add, edit, or delete a user's face template.
- **Manage Pin:** Add, edit, or delete a user's Pin.

Selecting a card


When a user authenticates with a biometric credential on the device, Suprema Integration with Paxton Net2 sends that user's card ID to Paxton Net2 via Wiegand. Select the card you want to send to Net2.

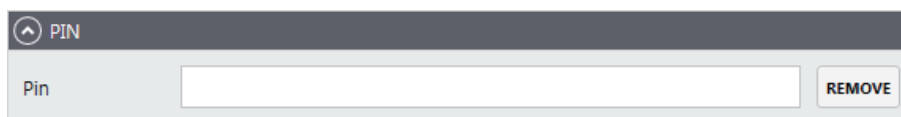
- 1 Add users on the **Net2 Access Control** system.
- 2 Click to move to the **Users** menu.
- 3 Select users and click **Manage Cards**.
- 4 Select the output card.



- 5 Click **APPLY** to save the settings.

Enrolling a PIN

- 1 Add users on the **Net2 Access Control** system.
- 2 Click  to move to the **Users** menu.
- 3 Select users and click **Manage Pin**.
- 4 Enter a PIN to use.



- 5 Click **APPLY** to save the settings.


Enrolling fingerprint

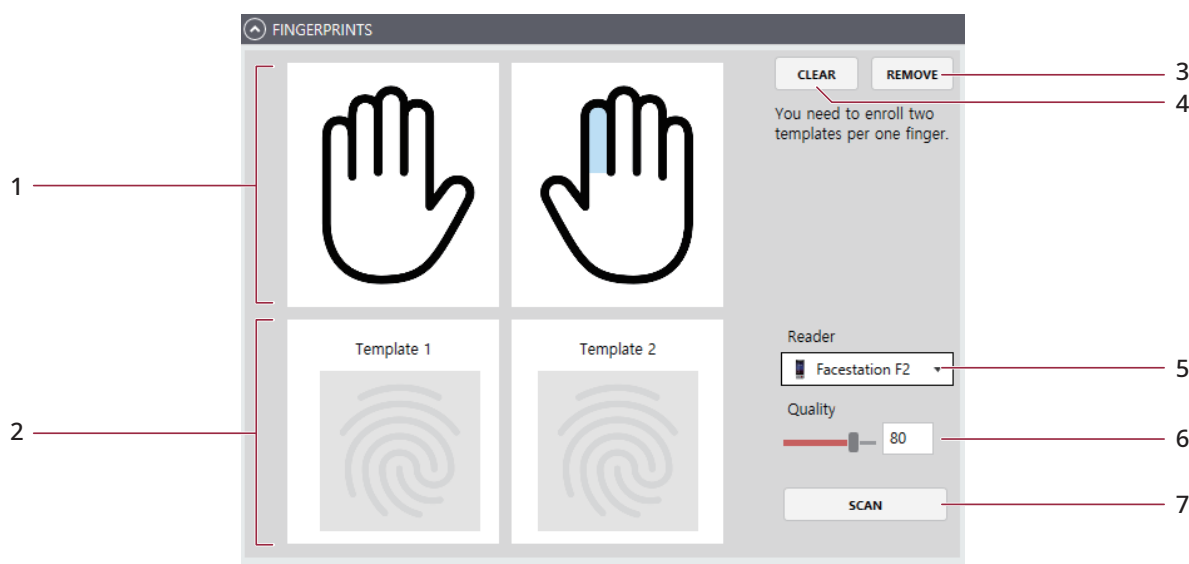
In Suprema Integration with Paxton Net2 server, you can enroll user's fingerprints by selecting the device or USB fingerprint scanner. Or, you can also select the user on the device with an LCD display to enroll the fingerprint directly. Whether you enroll the fingerprint on a server or on a specific device, that user's information is synchronized in real time on all devices connected to Suprema Integration with Paxton Net2.

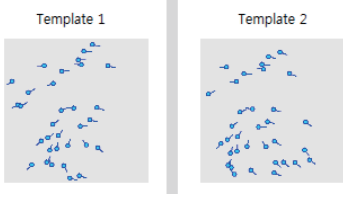


- You can register up to 10 fingerprints per user.
- If the fingerprint authentication rate is low, delete the existing fingerprint information and add a new fingerprint.
- For best fingerprint scanning quality, make sure to cover the entire surface of the fingerprint sensor with the finger. We recommend using the index finger or the middle finger.

Server

- 1 Add users on the **Net2 Access Control** system.
- 2 Click  to move to the **Users** menu.
- 3 Select a user and click **Manage Fingerprints**.
- 4 Configure the settings.



No.	Item	Description
1	Finger Selection	Select a finger from image to enroll a fingerprint.
2	Fingerprint Image	<p>This section shows the analysis of the fingerprint enrolled.</p> 
3	REMOVE	Delete a selected fingerprint template.
4	CLEAR	Delete all registered fingerprints templates.
5	Reader	<p>Select a device or USB fingerprint scanner to enroll the fingerprint with.</p> <p>NOTE</p> <ul style="list-style-type: none"> Only devices connected to Suprema Integration with Paxton Net2 are displayed in the Reader list. Register the device first by referring to Device registration and then enroll fingerprints.
6	Quality	Select a fingerprint enrollment quality level. Any fingerprint which does not meet the quality requirement will not be enrolled.
7	SCAN	Click SCAN and then place a finger on the fingerprint scanner or the device sensor.

5 Click **APPLY** to enroll the fingerprint.

Device

You can view the added user in the user list of the device connected to Suprema Integration with Genetec Security Center.



- This section uses the FaceStation F2 as an example. The user interface such as the name of functions and the shape of icons may be different for each device.
- For how to register fingerprint of each device, refer to the user guide of the device.

- On the device, press **■** and authenticate with the Admin level credential.
- Press **USER** and select a user to enroll a fingerprint.
- Press **Fingerprint**.
- Press **+** and enroll a fingerprint. Scan the fingerprint of a finger you wish to enroll, and then scan the fingerprint of the same finger again.

Enrolling a face

In Suprema Integration with Paxton Net2 server, you can enroll user's face by selecting the device. Or, you can also select the user on the device with an LCD display to enroll the face directly.

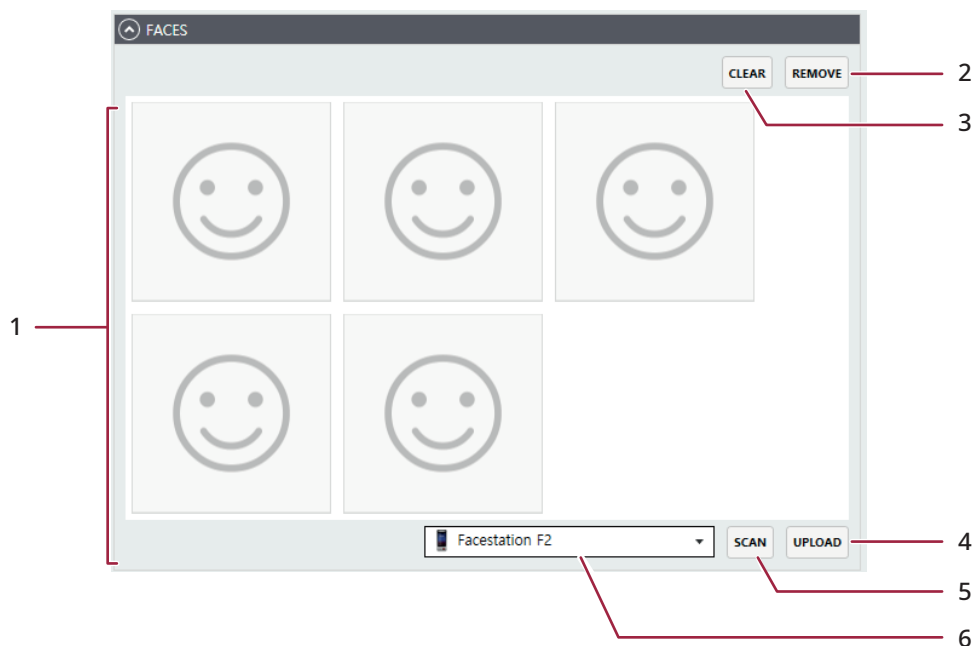
Whether you enroll the face on a server or on a specific device, that user's information is synchronized in real time on all devices connected to Suprema Integration with Paxton Net2.



- You can register up to 5 face templates per user. On FaceStation F2, you can register up to 2 face templates per user.
- When enrolling a face, maintain a distance of 60–100 cm between the device and the face.
- Do not change your face expression.
- Do not wear masks, hats, or eye patches.
- Do not enroll a face wearing a mask. It may increase the False Acceptance Rate (FAR) if both faces with and without a mask are enrolled.
- Do not raise head up or lower head.
- Do not wear thick makeup.
- Do not close your eyes.
- Make sure that both of your shoulders correctly appear on the screen.
- Stand still and enroll your face by staring at the screen.
- Be careful not to display two faces on the screen. Enroll one person at a time.
- If you do not follow the instructions on the screen, the face enrollment may take longer or may fail.

Server

- 1 Click .
- 2 Select a user and click **Manage Faces**.
- 3 Configure the settings.



No.	Item	Description
1	Face Image	Select the face.
2	REMOVE	Delete the selected face template.
3	CLEAR	Delete all registered face templates.
4	UPLOAD	Upload a user's picture.
5	SCAN	Click SCAN and then follow the instructions on the device screen to scan.
6	Device	Select a device to enroll the face with.

4 Click **APPLY** to enroll the face.

Device

You can view the added user in the user list of the device connected to Suprema Integration with Paxton Net2.



- This section uses FaceStation F2 as an example. The user interface such as the name of functions and the shape of icons may be different for each device.
- For how to register the face of each device, refer to the user guide of the device.

- 1 Press and authenticate with the Admin level credential.
- 2 Select **USER** and select a user to enroll a face.
- 3 Press **Face**.
- 4 Press and enroll a face.

Enrolling a visual face remotely

Visual Face is a credential that captures the user's face with a visual camera. It is different from face information captured with an infrared camera and is only available on devices that support Visual Face.



- The devices that can use Visual Face are as follows.
 - FaceStation F2 FW v1.1.1 or later

You can send the visual face remote enrollment link to users via email. Users can access the link from their mobile device and enroll their visual face directly.

An AWS account is required to use the visual face remote enrollment, and you need to register your AWS account and SMTP information on the awsDeploy.bat file.

Checking AWS account information

To use the visual face remote enrollment, the following information is required.

- AWS Account ID
- AWS Access Key ID
- AWS Secret Access Key
- Default region name
- Default output format

You can find this information on the AWS website (<https://aws.amazon.com>).

- 1 Log in to your AWS account. If you do not have an account, click **Create an AWS Account** to create one.
- 2 Click **Services** to access **Identity and Access Management (IAM)**.

The screenshot displays the AWS IAM dashboard for the account 'enrollsupremavisa8070'. The dashboard includes a search bar, navigation menu, and several key sections:

- Security recommendations:** Alerts for 'Add MFA for root user' and 'Deactivate or delete access keys for root user'.
- IAM resources:** A summary table showing 1 User group, 1 User, 6 Roles, 0 Policies, and 0 Identity providers.
- AWS Account:** Details for Account ID 121421351848, Account Alias 121421351848, and a sign-in URL.
- What's new:** Updates for IAM features, including IAM Access Analyzer and AWS Amplify support.
- Tools:** Links to Policy simulator and Web identity federation playground.

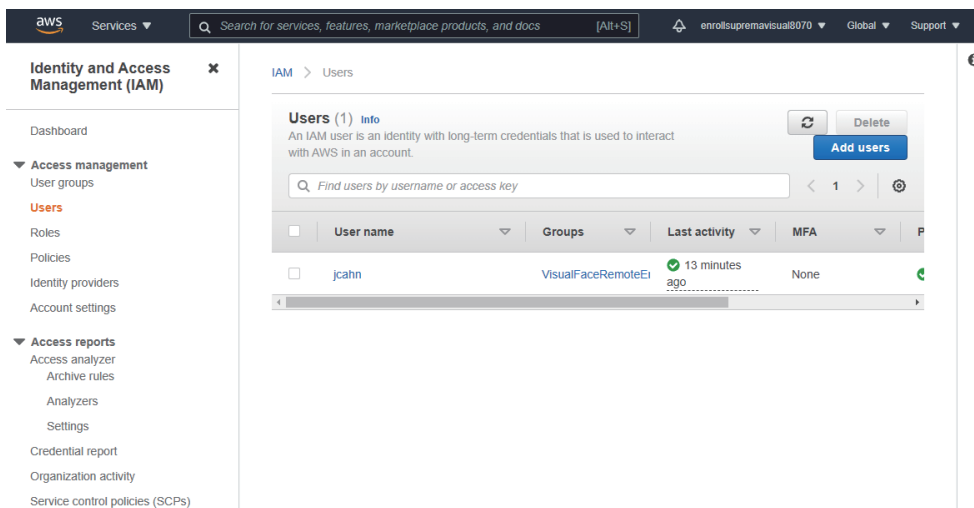
3 Select **User groups** under **Access management** and click **Create group**.

The screenshot shows the AWS IAM console interface. On the left, the navigation menu is expanded to 'Access management' > 'User groups'. The main content area displays the 'User groups (1) info' section. Below the info, there is a search bar and a table listing the user groups. The table has columns for 'Group name', 'Users', 'Permissions', and 'Creation time'. One group is listed: 'VisualFaceRemoteEnrollment' with 1 user, a 'Defined' status, and a creation time of 18 minutes ago. A 'Create group' button is located in the top right corner of the main content area.

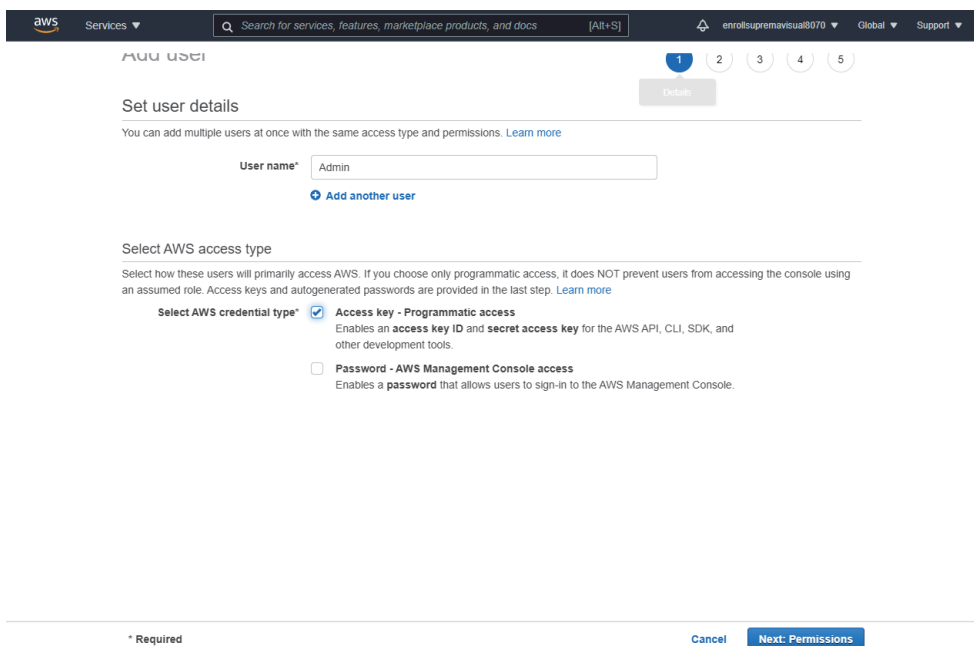
4 Enter the user group name and select **AdministratorAccess** for the permissions policies. And then click **Create group**.

The screenshot shows the 'Create user group' page in the AWS IAM console. The 'Name the group' section has a text input field containing 'VisualFaceRemoveEnrollmentGroup'. Below this, the 'Add users to the group - Optional (1) info' section shows a search bar and a table with one user: 'jcahn' with 1 user and 'None' last activity. The 'Attach permissions policies - Optional (Selected 1/692)' section shows a search bar with '10 matches' and a list of policies. The 'AdministratorAccess' policy is selected, indicated by a blue checkmark. At the bottom right, there are 'Cancel' and 'Create group' buttons.

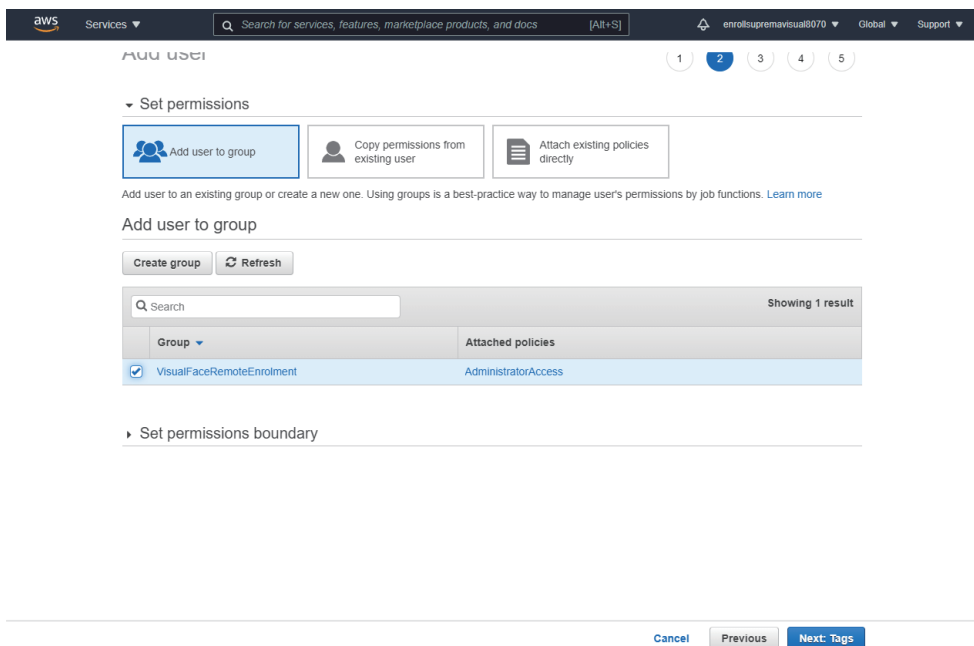
5 Select **Users** under **Access management** and click **Add users**.



6 Enter the user name and Select **Access key - Programmatic access** on the **Select AWS access type** tab. And then click **Next:Permissions**.



7 Select the group and click **Next:Tags**.



The screenshot shows the 'Add user' wizard in the AWS IAM console. The current step is 'Set permissions', which is the second step in a five-step process. The user is 'enrollsupremavisual8070'. Under 'Set permissions', there are three options: 'Add user to group' (selected), 'Copy permissions from existing user', and 'Attach existing policies directly'. Below these options, there is a section titled 'Add user to group' with 'Create group' and 'Refresh' buttons. A search bar is present, and a table shows one result: 'VisualFaceRemoteEnrolment' with 'AdministratorAccess' attached policies. At the bottom right, there are 'Cancel', 'Previous', and 'Next: Tags' buttons.

aws Services Search for services, features, marketplace products, and docs [Alt+S] enrollsupremavisual8070 Global Support

ADD USER 1 2 3 4 5

Set permissions

Add user to group Copy permissions from existing user Attach existing policies directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Add user to group

Create group Refresh

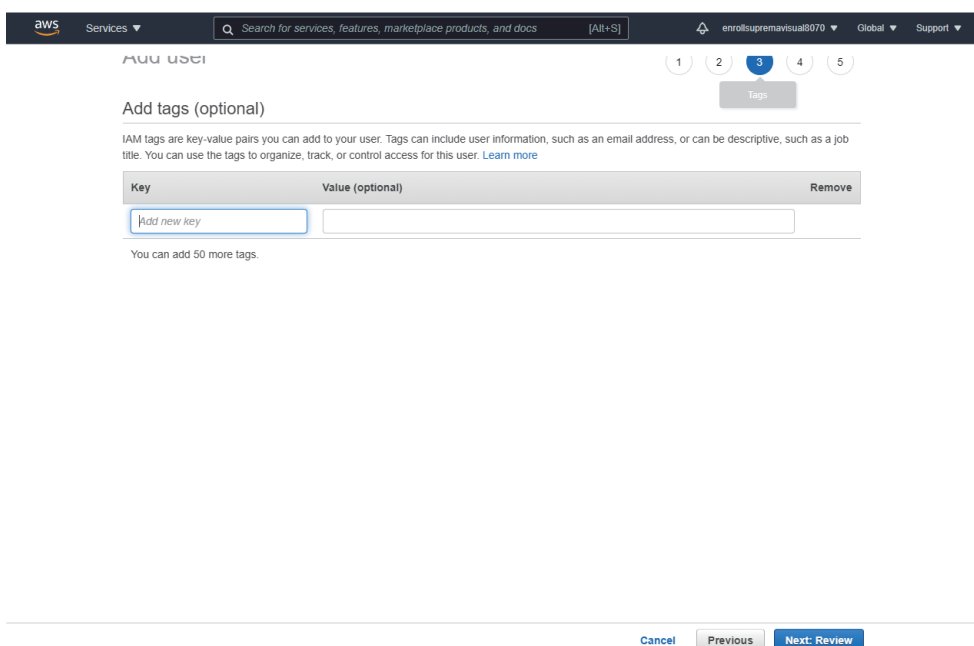
Search Showing 1 result

Group	Attached policies
<input checked="" type="checkbox"/> VisualFaceRemoteEnrolment	AdministratorAccess

Set permissions boundary

Cancel Previous Next: Tags

8 Add tags. This step is optional. Click **Next:Review**.



The screenshot shows the 'Add user' wizard in the AWS IAM console. The current step is 'Add tags (optional)', which is the third step in a five-step process. The user is 'enrollsupremavisual8070'. There is a 'Tags' button. Below it, there is a table with columns 'Key', 'Value (optional)', and 'Remove'. A text input field contains 'Add new key'. Below the table, it says 'You can add 50 more tags.' At the bottom right, there are 'Cancel', 'Previous', and 'Next: Review' buttons.

aws Services Search for services, features, marketplace products, and docs [Alt+S] enrollsupremavisual8070 Global Support

ADD USER 1 2 3 4 5

Add tags (optional) Tags

IAM tags are key-value pairs you can add to your user. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this user. [Learn more](#)

Key	Value (optional)	Remove
<input type="text" value="Add new key"/>	<input type="text"/>	

You can add 50 more tags.

Cancel Previous Next: Review

9 Check the user details you have set and click **Create user**.

The screenshot shows the AWS IAM console 'Review' page for creating a user. The page is titled 'Review' and includes a 'Details' button. Below the title, there is a section for 'User details' with the following information:

User name	Admin
AWS access type	Programmatic access - with an access key
Permissions boundary	Permissions boundary is not set

Below this is a 'Permissions summary' section, which states: 'The user shown above will be added to the following groups.' This is followed by a table:

Type	Name
Group	VisualFaceRemoteEnrollment

There is also a 'Tags' section with the text 'No tags were added.' At the bottom right of the page, there are three buttons: 'Cancel', 'Previous', and 'Create user'.

10 Sign in again with the created IAM user account.



Sign in as IAM user

Account ID (12 digits) or account alias

IAM user name

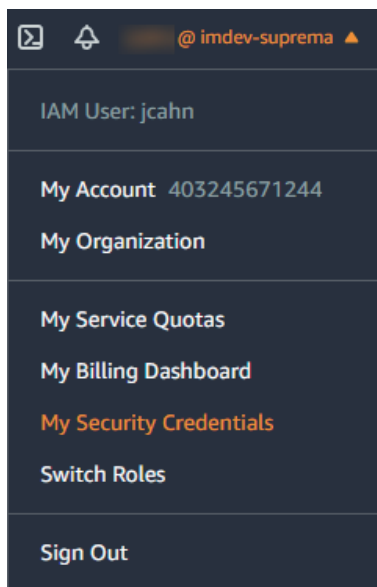
Password

Sign in

[Sign in using root user email](#)

[Forgot password?](#)

- 11 Click your email address in the upper right corner of the screen and then click **My Security Credentials**.



- 12 Check your **AWS Account ID**. Then, click **Create access key** on the **AWS IAM credentials** tab.

My security credentials

Account details

User name [redacted] (created on 2021-09-15 14:21 UTC+0900)

User ARN [redacted]

AWS account ID [redacted]

Account canonical user ID [redacted]

AWS IAM credentials | AWS CodeCommit credentials | Amazon MCS credentials

Password for console access

As an IAM user, you need a password to access the AWS Management Console. We recommend changing your password on a regular basis. [password is 0 days old. Learn more](#)

[Change password](#)

Access keys for CLI, SDK, & API access

Use access keys to make programmatic calls to AWS from the AWS CLI, Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time.

For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation. **If you lose or forget your secret key, you cannot retrieve it. Instead, create a new access key and make the old key inactive.** [Learn more](#)

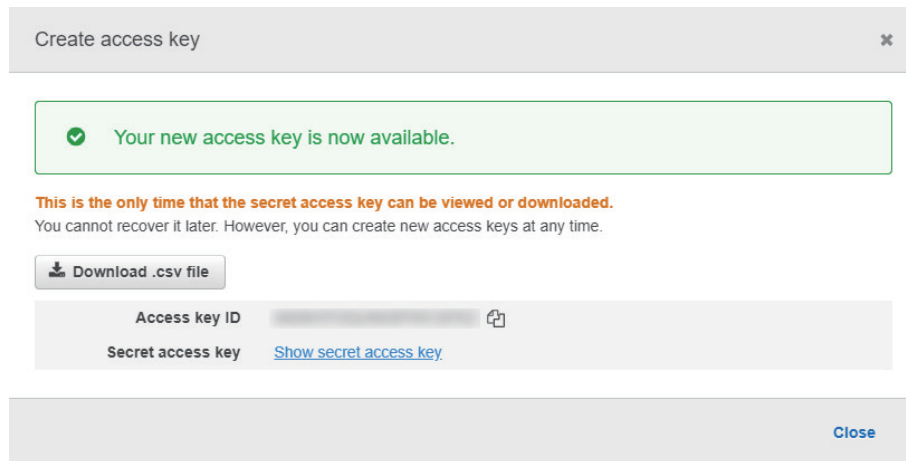
[Create access key](#)

Access key ID	Status	Created	Last used	Actions
[redacted]	Active	2021-09-15 14:21 UTC+0900	N/A	Make inactive Delete

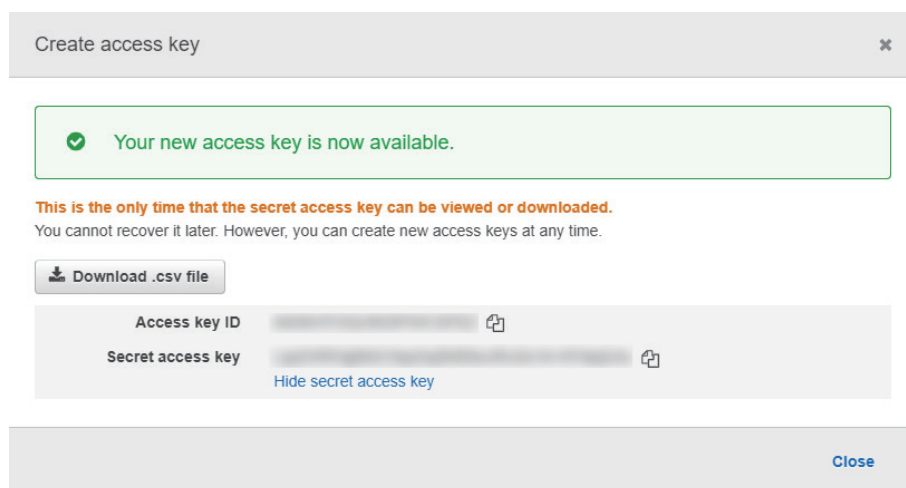
Multi-factor authentication (MFA)

For increased security, we recommend configuring MFA to help protect your AWS resources. MFA requires users to type a unique authentication code from an approved authentication device when they sign in to AWS. [Learn more](#)

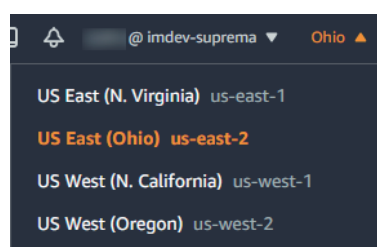
13 Click **Show secret access key**.



14 Check the **Access Key ID** and **Secret access key**. Keep your access key in a safe place to avoid losing it.






15 Click **Global** in the upper right corner of the screen to select a region.



Checking SMTP/POP3 information

Visual face remote enrollment links are emailed to individual users. When a user accesses the link and registers a face using a mobile device, the visual face data is sent back to the system via email. Incoming Mail (POP) Server and Outgoing Mail (SMTP) Server are required for this process.

This document describes how to set up the SMTP/POP server using Gmail as an example. If you are using another email service, refer to the guidance of the email service provider.

- 1 Log in with a gmail account to use as an SMTP and POP server.
- 2 Click  → **Account**.
- 3 Select **Security** in the navigation panel.
- 4 Click **Less secure app access** and set **Allow less secure apps** to **ON**.
- 5 Under **Signing in to Google**, click **2-Step Verification** → **GET STARTED**.
- 6 Follow the on-screen instructions to create an app password.
- 7 Click  → **Gmail**.
- 8 Click  → **See all settings**.
- 9 Click the **Forwarding and POP/IMAP** tab.
- 10 In the **POP download section**, select **Enable POP for all mail** or **Enable POP for mail that arrives from now on**.
- 11 Click **Save Changes**.

If you set up the SMTP/POP servers with gmail as above, you can enter each field of SMTP and POP3 in the visual face settings on [Settings](#) as follows.

Item	Description
Outgoing Mail (SMTP) Server	<ul style="list-style-type: none"> • Server Address: smtp.gmail.com • Port: 587 • User Name: Email sender name • Password: The app password created in step 6 above
Incoming Mail (POP) Server	<ul style="list-style-type: none"> • Server Address: pop.gmail.com • Port: 995 • User Name: Email recipient name • Password: The app password created in step 6 above




- When using the SMTP server as an email account with two-factor authentication and change the password of the account, note the following: Once you set up two-factor authentication, the SMTP password is the same as the app password generated using two-factor authentication, not the password of the email account. At this time, if the password of the email account is changed, the app password is automatically deleted, and the SMTP password is no longer available. When changing the password for the email account, regenerate the app password and then set the SMTP password again.

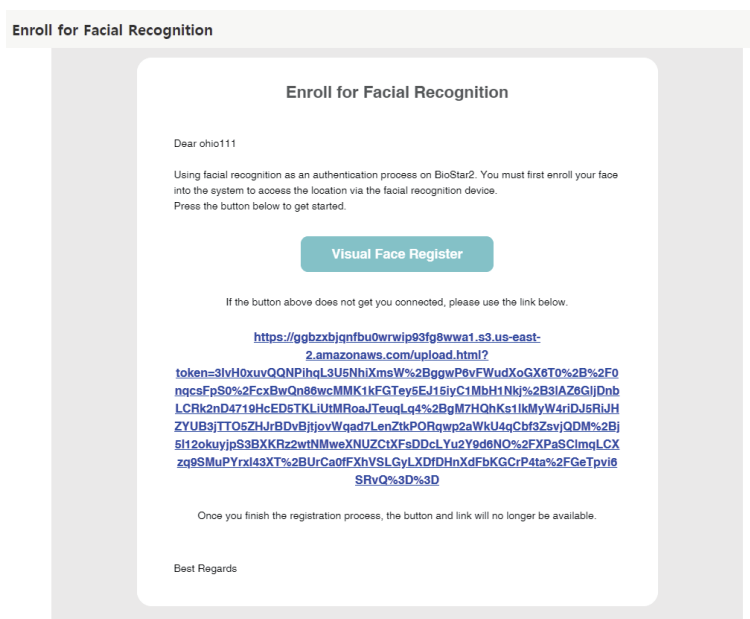
Enrolling a visual face remotely

You can send the visual face remote enrollment link to users via email.

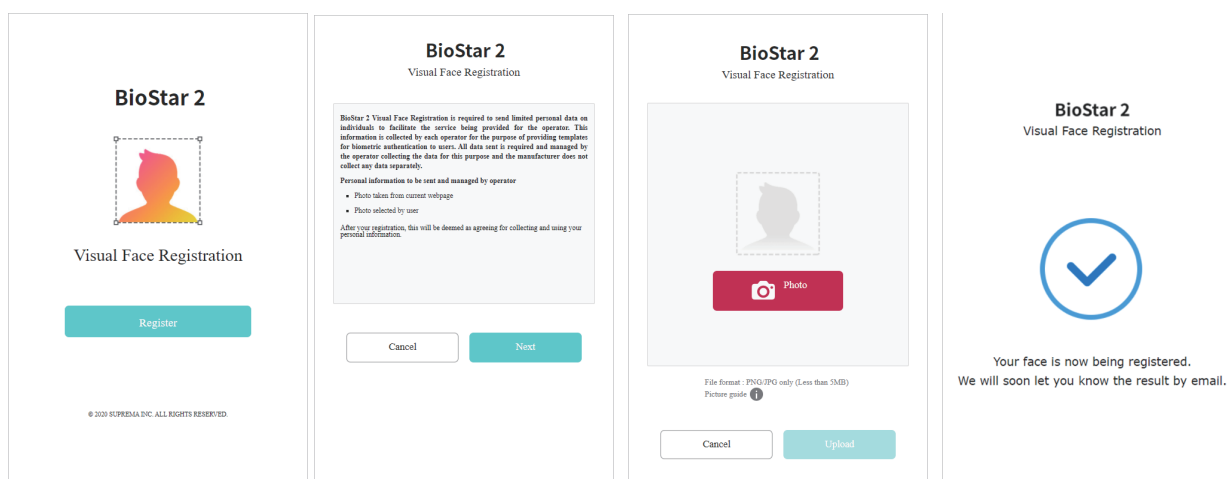
If all settings for using remote enrollment are completed and email address is registered to the user, a remote enrollment link will be automatically sent to the user by email. Users can access the link from their mobile device and enroll their visual face directly.

You can also manually send emails to users if automatic delivery fails.


- 1 Click .
- 2 Select a user and click **Resend Mail**.
- 3 The visual face enrollment link will be sent to the email of the selected user.



When the user taps on **Visual Face Register** button on the email, the visual face enrollment is executed as follows.








- If the user receiving the visual face remote enrollment link uses an external email application, the language of the email application must be set to the language of their country. If the language does not support Unicode, the text in the email may be broken.
- Supported image file size is up to 5MB.
- Supported image file formats are JPG, JPEG and PNG.
- Once the visual face remote enrollment process is complete, users will receive an email notifying them of successful registration. If registration fails, a new link for the visual face remote enrollment will be sent and the user can retry the registration. At this time, the existing registration link will automatically expire.

- 4 When the user completes the upload, a number is displayed in the  column. Select that user and click **Manage Faces**.

Users

Search... Get All users from Net2

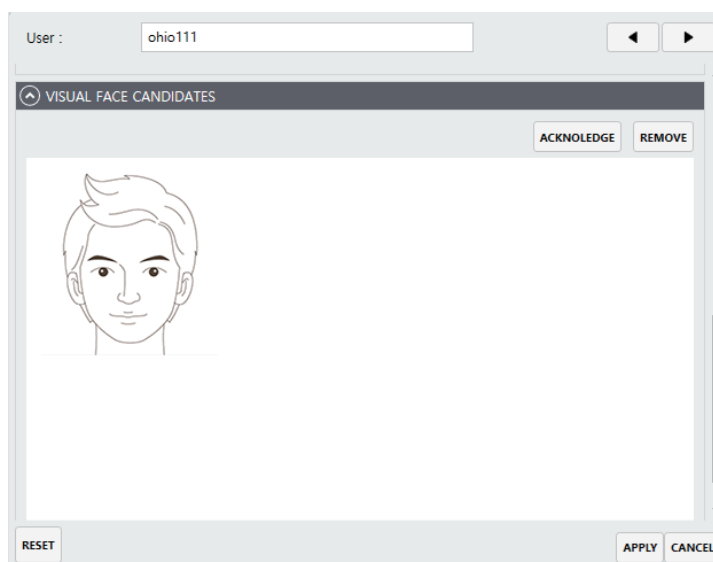
ID	NAME	EMAIL						EXPIR	LAST
432	walgu	[REDACTED]	2	1	0	False	0	2021-09-2	
477	babagaga421	[REDACTED]	0	0	0	False	0	2021-01-2	
474	ohio111	[REDACTED]	0	0	0	False	1	2021-01-2	
483	ahahahhahhh	[REDACTED]	1	1	1	False	0	2021-02-2	
1191	Mitchell Ashworth	[REDACTED]	1	0	0	False	0	2021-03-2	
617	Wayne Addison	[REDACTED]	0	0	0	False	0	2021-03-2	
8109	caitlin ashurst	[REDACTED]	0	0	0	False	0	2021-03-2	
7585	caitlin ashurst	[REDACTED]	1	0	0	False	0	2021-03-2	
3607	vincent arundell	[REDACTED]	1	0	0	False	0	2021-03-2	

Resend to All Devices
Rese
Manage Cards
Manage Fingerprints
Manage Faces
Manage Pin



- If **Use Auto Acknowledge** is set in Settings, the process below will be omitted when the user completes visual face enrollment, and the user's visual face will be automatically enrolled. For more information, refer to [Visual Face](#).

- 5 Check the visual face in the **VISUAL FACE CANDIDATES** tab and click **ACKNOWLEDGE**.



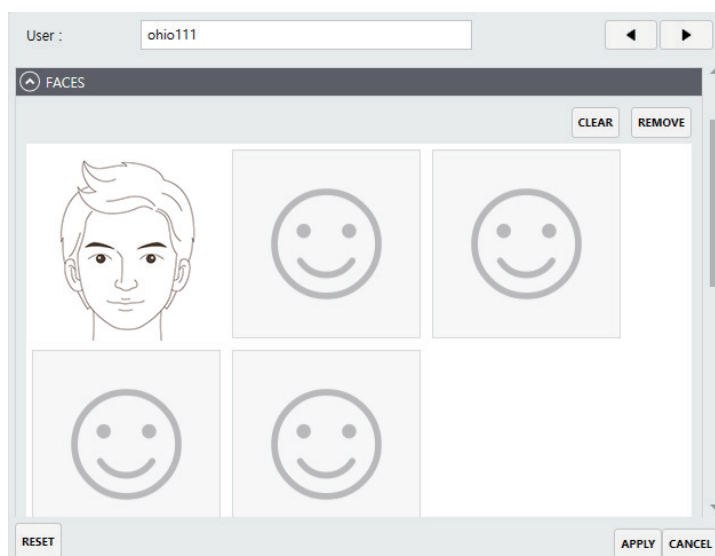
- 6 If the image extraction is successful, the following message is displayed. Click **OK** to continue.

Warp Success

Photo extraction succeeded. Do you want to proceed?




- 7 The extracted visual face is enrolled in the **FACES** tab. Click **APPLY** to complete the enrollment of the visual face, and the visual face is synchronized with devices so that the user can authenticate the face.




Resending user data to connected devices

You can send users to all devices connected to Suprema Integration with Paxton Net2.

- 1 Click .
- 2 Select users to send and click **Resend to All Devices**.
- 3 Check the list of users on the device.


Monitoring

You can use the Monitoring menu to view lists of events that occurred on device.

- 1 Click .
- 2 Check the logs.
To delete the logs, click **Refresh**.

Monitoring

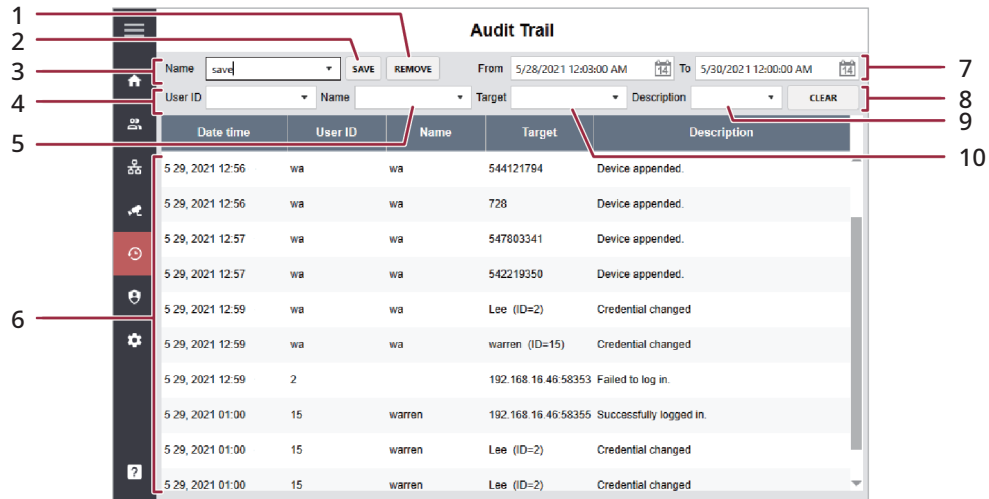
DATETIME	EVENT	USER ID(CARD ID)	DEVICE	INDEX
5 11, 2021 06:18	Authentication failed (Invalid credential)	1032	541531089	63441
5 11, 2021 06:18	Authentication failed (Invalid credential)	1032	541531089	63440
5 11, 2021 06:17	User update succeeded	wa	541531089	63439
5 11, 2021 06:17	User update succeeded	6350	541531089	63438
5 11, 2021 06:17	User update succeeded	6349	541531089	63437
5 11, 2021 06:17	User update succeeded	6348	541531089	63436
5 11, 2021 06:17	User update succeeded	6347	541531089	63435
5 11, 2021 06:17	User update succeeded	6346	541531089	63434
5 11, 2021 06:17	User update succeeded	6345	541531089	63433
5 11, 2021 06:17	User update succeeded	6344	541531089	63432

 Refresh

Audit Trail

Audit trail tracks user access information as well as all the information changed in the system. You can set a filter for each item for sorting.


- 1 Click .
- 2 Set filters.

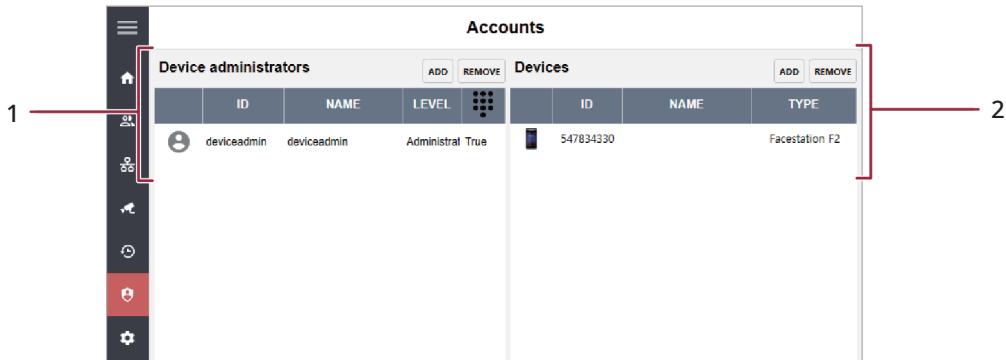


No.	Item	Description
1	REMOVE	Remove the preset filter.
2	SAVE	Save the current filter values.
3	Name	Select a preset filter.
4	User ID	Select a user ID.
5	Name	Select a username.
6	Audit List	Shows the audit list.
7	Period	Set the period.
8	CLEAR	Clear the current filter values.
9	Description	Select a description.
10	Target	Select a target.

Accounts

You can assign administrator account levels to registered users.

- 1 Click .
- 2 Configure the settings.




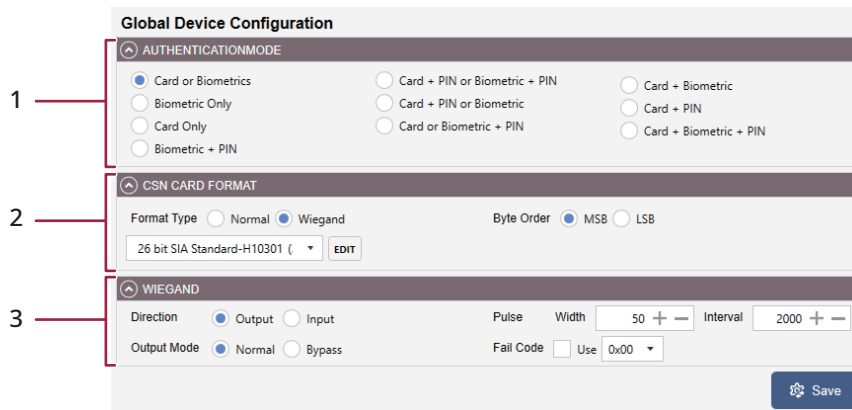
No.	Item	Description
1	Device administrators	<p>A list of administrators registered with Suprema Integration with Paxton Net2 is displayed. If the pin is set in the administrator account, the administrator can log in directly to Suprema Integration with Paxton Net2.</p> <ul style="list-style-type: none"> • ADD: You can assign the administrator level by selecting a user. Select an account level type, then click on the user to whom you want to assign that level. <p>NOTE</p> <ul style="list-style-type: none"> • The administrator account levels are as follows: <ul style="list-style-type: none"> • Administrator: Users can access and use all menus. • Device Operator: If a PIN is registered with the user, the user can log in to Suprema Integration with Paxton Net2. Also, users can register user accounts in the client system and configure device settings by accessing devices. • User Operator: If a PIN is registered with the user, the user can log in to Suprema Integration with Paxton Net2. Also, users can register user accounts in the client system and enroll users in devices. • REMOVE: Remove an administrator.
2	Devices	<p>The list of devices that can be managed by the user selected in the Device administrator list is displayed.</p> <ul style="list-style-type: none"> • ADD: Add devices to the selected administrator. • REMOVE: Remove the device from the selected administrator.

Settings

Global Device Configuration

You can edit settings of registered devices.

- 1 Click .
- 2 Configure the settings.




No.	Item	Description
1	AUTHENTICATION MODE	You can configure the authentication modes of the device. Suprema Integration with Paxton Net2 can use any combinations of biometric credentials, card, and PIN as authentication modes.
2	CSN CARD FORMAT	<p>You can set the CSN card format used by the device.</p> <ul style="list-style-type: none"> Format Type: If Format Type is set to Normal, the device will read the card serial number (CSN). If the option is set to Wiegand, the device will read the card serial number in a Wiegand format that the user has defined. If Format Type is set to Wiegand, you can set the Wiegand format to be used in the device. Click EDIT to edit the Wiegand format. You can configure the number of bits and rules for the Wiegand format directly in Suprema Integration with Paxton Net2, as in Net2 Access Control. Byte Order: When Byte Order is set to MSB, the device reads a card ID from the highest byte to the lowest byte. When the option is set to LSB, the device reads a card ID from the lowest byte to the highest byte.
3	WIEGAND	<p>You can define the Wiegand Input/Output.</p> <ul style="list-style-type: none"> Direction: You can select input/output mode. Pulse Width: You can set the pulse width of the Wiegand signal. Pulse Interval: You can set the pulse interval of the Wiegand signal. Output Mode: You can set the Wiegand signal output mode. If it is set to Normal, a card will be scanned in the set Wiegand format. If it is set to Bypass, CSN will be sent regardless of Wiegand authentication. Bypass should be set when using the device without an entrance door control function. If it is set to Normal mode, it is possible to set Fail Code, and select a value to be transmitted when Wiegand card authentication fails.

- 3 Click **Save** to save the settings.

Visual Face

You can set whether to use visual face and remote enrollment. And you can also enter the SMTP/POP3 settings and activate AWS.

- 1 Click .
- 2 Configure the settings.


No.	Item	Description
1	BASIC	<p>You can make basic settings related to visual face.</p> <ul style="list-style-type: none"> • Use Visual Face: Click to use the visual face as a credential. • Use Remote Enrollment: Click to use the visual face remote enrollment. • Use Auto Acknowledge: Click to automatically enroll a visual face as a user's credential when that is received by email. If this option is not selected, the administrator must enroll it manually. • Valid Period of Token: Set the time for the visual face remote enrollment link to expire. You can enter numbers from 30 to 10080. If you enter an invalid value and save it, it will be changed to 1440. • Token Encrypt Key(hex): Enter the token encrypt key. If there is no token encryption key, it is automatically generated. If the key is exposed, click CHANGE to change the key. • Complimentary Close: Enter the complimentary close in the email.

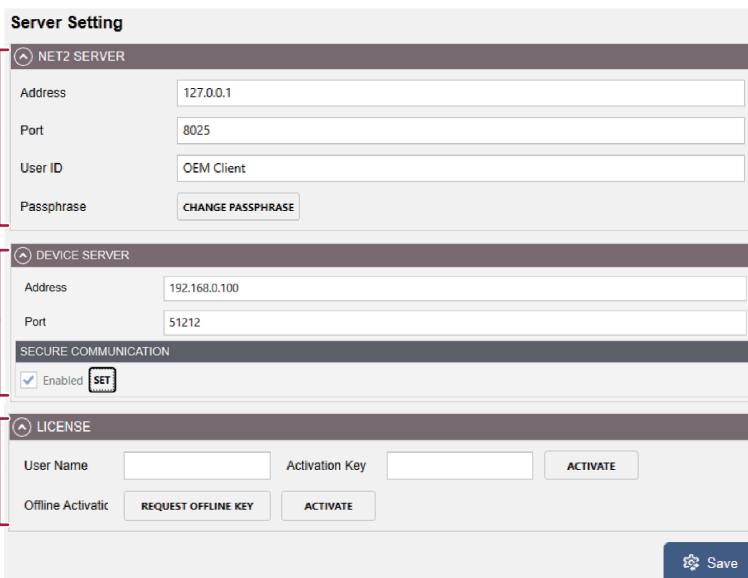
2	SMTP SETTING	<p>Set up SMTP to send emails including remote enrollment link.</p> <ul style="list-style-type: none"> • Server Name: Enter the SMTP server name. • Description: Enter the description. • Server Address: Enter the SMTP server address. SMTP server address is the same form as 'smtp. Email Service Provider.com'. • Port(default: 25): Enter the port number of the email used as the SMTP server. • User Name: Enter the name or email address of the email sender. • Password: Enter the app password for the email account used as the SMTP server. • Security Type: Select security type. • Sender: Enter the email address of the email sender. • Test Email: Enter an email address to receive the test email and click SEND. If the test email is sent successfully, the message below will be displayed. <div data-bbox="424 667 1457 864" style="border: 1px solid #ccc; padding: 10px; text-align: center;"> <p>OK</p> <p>Sending test mail succeeded</p> <p><input type="button" value="OK"/></p> </div> <ul style="list-style-type: none"> • Sending Delay: Enter the sending delay time. It is recommended to set 3 to 5 seconds. <p>NOTE</p> <ul style="list-style-type: none"> • For each SMTP information, refer to Checking SMTP/POP3 information
3	POP3 SETTING	<p>Set up POP3 to receive emails from users with remote enrollment information.</p> <ul style="list-style-type: none"> • Server Name: Enter the POP3 server name. • Description: Enter the description. • Server Address: Enter the POP3 server address. POP3 server address is the same form as 'pop. Email Service Provider.com'. • Port(default: 110): Enter the port number of the email used as the POP server. • User Name: Enter the Email recipient name. • Password: Enter the app password for the email account used as the POP server. • Security Type: Select security type. <p>NOTE</p> <ul style="list-style-type: none"> • For each POP3 information, refer to Checking SMTP/POP3 information.
4	AWS Activation	<p>Activate AWS to use the visual face remote enrollment. Click AWS Activation. Enter the value of AWS Access Key ID, AWS Secret Access Key, Default region name, and AWS Statement ID (AWS Account ID).</p> <div data-bbox="424 1621 1457 1917" style="border: 1px solid #ccc; padding: 10px;"> <p>AWS Activation Input the AWS account and confirm.</p> <p>Input AWS Access Key ID <input type="text"/></p> <p>Input AWS Secret Access Key <input type="text"/></p> <p>Input Default Region Name <input type="text" value="us-east-2"/></p> <p>Input Statement ID <input type="text"/></p> <p style="text-align: center;"><input type="button" value="OK"/> <input type="button" value="Cancel"/></p> </div> <p>NOTE</p> <ul style="list-style-type: none"> • For each AWS account information, please refer to Checking AWS account information.

3 Click **Save** to save the settings.

Server Setting

You can set up the network for connecting with Net2 Access Control and devices. You can also activate the purchased license.

- 1 Click .
- 2 Configure the settings.



The screenshot shows the 'Server Setting' interface. It is divided into three main sections:

- NET2 SERVER:** Contains fields for 'Address' (127.0.0.1), 'Port' (8025), and 'User ID' (OEM Client). There is a 'CHANGE PASSPHRASE' button next to the User ID field.
- DEVICE SERVER:** Contains fields for 'Address' (192.168.0.100) and 'Port' (51212). Below these is a 'SECURE COMMUNICATION' section with a checked 'Enabled' checkbox and a 'SET' button.
- LICENSE:** Contains fields for 'User Name' and 'Activation Key', and an 'ACTIVATE' button. Below these are 'REQUEST OFFLINE KEY' and 'ACTIVATE' buttons.

A 'Save' button is located at the bottom right of the form.

No.	Item	Description
1	NET2 SERVER	<ul style="list-style-type: none"> • Address: Enter the IP address of the Net2 Access Control server. • Port: Enter the port number of the Net2 Access Control server. • User ID: Enter the operator ID of Suprema Integration with Paxton Net2. • Password: If you changed the password of the OEM Client in Net2 Access Control, click CHANGE PASSWORD to enter the changed password.
2	DEVICE SERVER	<ul style="list-style-type: none"> • Address: Enter the IP address to be used by the device. • Port: Enter the port number to be used by the device. • SECURE COMMUNICATION: The communication between the server and the device can be protected using a certificate. To set the secure communication, select Enabled and then click SET to set the necessary items. <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">Secure Communication</p> <p>Secure Comm. <input checked="" type="checkbox"/> Use External Cert. <input checked="" type="checkbox"/> Use</p> <p>Root CA Cert. <input type="button" value="Upload"/> Public Key Cert. <input type="button" value="Upload"/></p> <p>Private Key <input type="button" value="Upload"/></p> <p>Private Key Passphrase(optional) <input type="text"/></p> <p>Confirm Private Key Passphrase <input type="text"/></p> <p style="text-align: right;"><input type="button" value="Apply"/> <input type="button" value="Cancel"/></p> </div> <p>When Use is set for Secure Comm., the server creates and sends a certificate to the device. The device can use a secure channel for exchanging data with the server using this certificate. In order to use an External Cert. (External certificate), Root CA Cert. (Root certificate), Public Key Cert. (Public key certificate), and Private key files must be uploaded. Enter the Private Key Passphrase (Optional). And Enter the Confirm Private Key Passphrase again to confirm.</p>

2	DEVICE SERVER	<p>NOTE</p> <ul style="list-style-type: none"> • The server creates or deletes a certificate according to the setting status of Secure communication, and the same certificate as the previous certificate will not be created. For example, if the setting of Secure communication is changed in the order of [Use - Not Use], the created certificate will be deleted automatically. When the setting is changed in the order of [Use - Not Use - Use], the operation of [Create A certificate - Delete A certificate - Create B certificate] is carried out. • If the device is disconnected from the network physically while using the secure communication of the server, do not turn off the secure communication option. In such a case, the certificate of the server will be deleted, and the device will not be able to connect again. To connect it again, the certificate saved in the device must be deleted or the device must be reset to factory default. Depending on the device type, you can delete a certificate in the following ways: <ul style="list-style-type: none"> - FaceStation F2, FaceStation 2, BioStation 2, BioStation A2, BioStation L2, BioStation N2: Access the device with the admin level credential and select Delete the Root Certificate on the Device menu. - BioEntry W2, BioEntry P2: Press the reset button three times quickly and when the green LED is blinking, press the reset button again. <p>For more details, refer to the manual of the device.</p>
3	LICENSE	<ul style="list-style-type: none"> • User Name: Enter the user name. • Activation Key: Enter the activation key that you've received from the Suprema local distributor. <p>NOTE</p> <ul style="list-style-type: none"> • To activate the license online, click ACTIVATE after entering your name and the activation key. To activate the license offline, click REQUEST OFFLINE KEY. • You can find contact details of your local distributor on the Suprema website (https://www.supremainc.com/en/wheretobuy/list.asp). • The valid date of the evaluation will be shown in LICENSE.

3 Click **Save** to save the settings.

Enrollment Helper Client

The Enrollment Helper provides an enrollment window for fingerprints and faces on the Net2 Access Control system. If you install the Enrollment Helper, you can enroll fingerprints and faces by opening a window for enrollment directly from the Net2 Access Control system.



- You can choose whether to install the Enrollment Helper when you install the Suprema Integration with Paxton Net2.

Enroll Credentials with Enrollment Helper

You can enroll fingerprints and faces for both existing and new users.

Enroll Credentials to Existing User

- 1 Run **Net2 Access Control**.
- 2 Click **Users** menu and select the user to enroll fingerprints or faces on the user list.
- 3 Click **Tokens** and then click **Add fingerprints**.

The screenshot shows a user management window with the following fields and options:

- First name: Jacey
- Surname: Ryu
- Department: (none) [New dept.]
- Telephone: [] Fax: []
- Personnel number: []
- Valid from: 2020-01-15
- Expires end: Never expires
- Access rights: [] Tokens: [] Other details: [] Memo: [] Events: [] Current validity: []
- PIN: [] Auto PIN: [] Card template: None
- Buttons on the right: New token, Delete, Lost token, Found token, Change token type, Add fingerprints
- Buttons at the bottom: Get picture, Delete picture, Bar user, Delete record, Export vcf, Apply

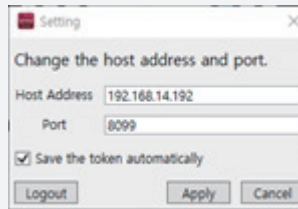
- 4 Click **Login** after entering the User ID and PIN.

The Login dialog box contains the following elements:

- Title: Login
- Text: Input your ID and PIN
- User ID: []
- PIN: []
- Buttons: Setting, Login, Cancel



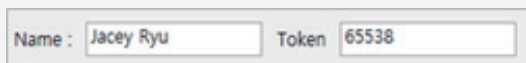
- A user can login with an account that has the administrator permission for Suprema Integration with Paxton Net2.
- Click **Setting** to change the host Address and port. And you can also choose whether to save tokens automatically. If you select **Save the token automatically** option, the automatically generated token will be registered in the Paxton Net2 system.



5 Enroll fingerprints by referring to **Enrolling fingerprint**. Or, Enroll faces by referring to **Enrolling a face**.

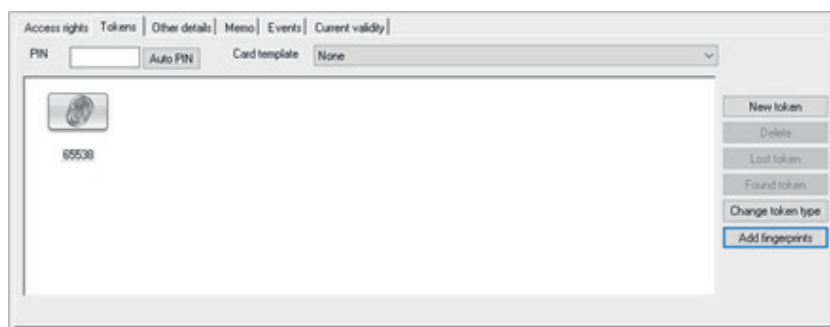


- The user name and the value of the automatically generated token are displayed on the enrollment window.




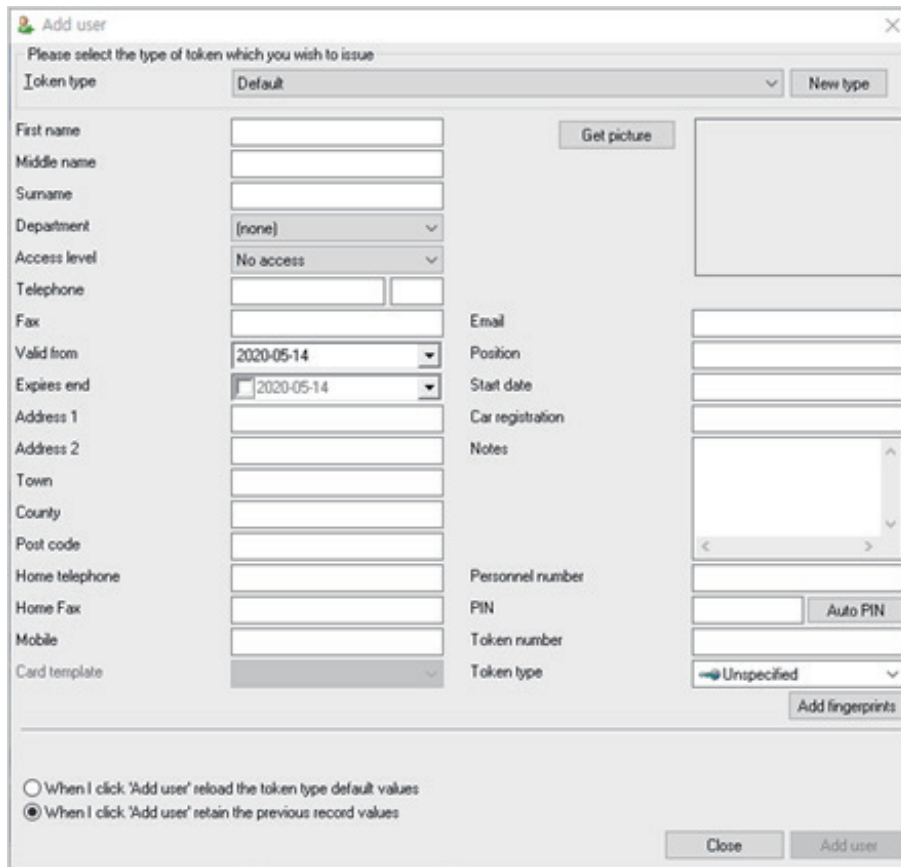
Token values can be changed, but we recommend that you use auto-generated values to prevent duplicate values from being generated.

6 Click **Add user** to save the settings. The token generated for the credential is displayed on the Tokens tab.

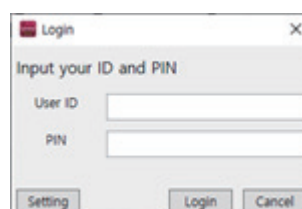


Enroll Credentials to New User

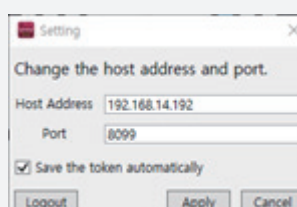
- 1 Run **Net2 Access Control**.
- 2 Click **Users** menu and double-click  New user.
- 3 Enter the user information to add and click **Add fingerprints**.



- 4 Click **Login** after entering the User ID and PIN.




- A user can login with an account that has the administrator permission for Suprema Integration with Paxton Net2.
- Click **Setting** to change the host Address and port. And you can also choose whether to save tokens automatically. If you select **Save the token automatically** option, the automatically generated token will be registered in the Paxton Net2 system.



- 5 Enroll fingerprints by referring to [Enrolling fingerprint](#). Or, Enroll faces by referring to [Enrolling a face](#).

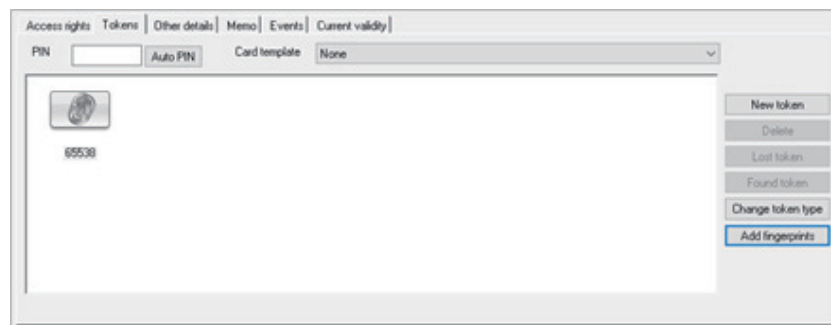


- The user name and the value of the automatically generated token are displayed on the enrollment window.

Name : Token

Token values can be changed, but we recommend that you use auto-generated values to prevent duplicate values from being generated.

- 6 Click **Add user** to save the settings.
The token generated for the credential is displayed on the Tokens tab.



Troubleshooting

This troubleshooting provides information to solve unexpected issues that you may encounter when using the product.

Problem	Solution
<p>AWS activation failed, and logs occurred as 'aws is not recognized as an internal or external command, operable program or batch file'.</p>	<p>If AWSCLIV2.msi is not installed, you cannot activate AWS. Install AWSCLIV2.msi of the installation path (C:\Program Files\Suprema Integration with Paxton Net2\install\cloud) and try to activate AWS again.</p>
<p>AWS activation failed, and logs occurred as 'An error occurred (EntityAlreadyExists) when calling the CreateRole operation: Role with name tokenValid-role already exists'.</p>	<p>If there are already created IAM Roles, Lambda, and API Gateway, you cannot create duplicates. Delete the existing IAM Roles, Lambda, and API Gateway as described below and try again.</p> <ol style="list-style-type: none"> 1 Sign in to your AWS account. 2 Click Services → Identity and Access Management (IAM). 3 Select Roles under Access management. 4 Select faceDetect-role, sendMail-role, and tokenValid-role on the Roles list and click Delete. 5 Click Services → Lambda → Functions. 6 Select tokenValidLambda, sendMailLambda, and faceDetectLambda on the Functions list and click Actions → Delete. 7 Click Services → API Gateway → APIs. 8 Select faceDetectLambda-API, sendMailLambda-API, and tokenValidLambda-API on the APIs list and click Actions → Delete.
<p>AWS activation failed, and logs occurred as 'An error occurred (AccessDenied) when calling the CreateRole operation: User: arn:aws:iam::121421351848:user/jcahn is not authorized to perform: iam:CreateRole on resource: arn:aws:iam::121421351848:role/tokenValid-role'.</p>	<p>If you do not have IAM user permissions, you cannot create IAM Roles. Refer to Checking AWS account information and add AdministratorAccess to the AWS user's Permission Policy and try again.</p>

Appendices

Disclaimers

- Information in this document is provided in connection with Suprema products.
- The right to use is acknowledged only for Suprema products included in the terms and conditions of use or sale for such products guaranteed by Suprema. No license, express or implied, by estoppel or otherwise, to any intellectual property is granted by this document.
- Except as expressly stated in an agreement between you and Suprema, Suprema assumes no liability whatsoever, and Suprema disclaims all warranties, express or implied including, without limitation, relating to fitness for a particular purpose, merchantability, or noninfringement.
- All warranties are VOID if Suprema products have been: 1) improperly installed or where the serial numbers, warranty date or quality assurance decals on the hardware are altered or removed; 2) used in a manner other than as authorized by Suprema; 3) modified, altered, or repaired by a party other than Suprema or a party authorized by Suprema; or 4) operated or maintained in unsuitable environmental conditions.
- Suprema products are not intended for use in medical, lifesaving, life-sustaining applications, or other applications in which the failure of the Suprema product could create a situation where personal injury or death may occur. Should you purchase or use Suprema products for any such unintended or unauthorized application, you shall indemnify and hold Suprema and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that Suprema was negligent regarding the design or manufacture of the part.
- Suprema reserves the right to make changes to specifications and product descriptions at any time without notice to improve reliability, function, or design.
- Personal information, in the form of authentication messages and other relative information, may be stored within Suprema products during usage. Suprema does not take responsibility for any information, including personal information, stored within Suprema's products that are not within Suprema's direct control or as stated by the relevant terms and conditions. When any stored information, including personal information, is used, it is the responsibility of the product users to comply with national legislation (such as GDPR) and to ensure proper handling and processing.
- You must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Suprema reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them.
- Except as expressly set forth herein, to the maximum extent permitted by law, the Suprema products are sold "as is".
- Contact your local Suprema sales office or your distributor to obtain the latest specifications and before placing your product order.

Copyright Notice

The copyright of this document is vested in Suprema. The rights of other product names, trademarks and registered trademarks are vested in each individual or organization that owns such rights.

Open Source License

gin-gonic/gin

The MIT License (MIT)

Copyright (c) 2014 Manuel Martínez-Almeida

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Gorm

The MIT License (MIT)

Copyright (c) 2013-NOW Jinzhu <wosmvp@gmail.com>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Go-ps

The MIT License (MIT)

Copyright (c) 2014 Mitchell Hashimoto

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

google/uuid

Copyright (c) 2009,2014 Google Inc. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

* Redistributions of source code must retain the above copyright notice, this list of conditions and the following

disclaimer.

* Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

* Neither the name of Google Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

gorilla/websocket

Copyright (c) 2013 The Gorilla WebSocket Authors. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

CommandLineParser

The MIT License (MIT)

Copyright (c) 2005 - 2015 Giacomo Stelluti Scala & Contributors

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MahApps Metro

MIT License

Copyright (c) .NET Foundation and Contributors. All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

MahApps Metro IconPacks

The MIT License (MIT)

Copyright (c) 2016-2019 MahApps, Jan Karger

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Newtonsoft.Json

The MIT License (MIT)

Copyright (c) 2007 James Newton-King

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Apache/log4net

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only

to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold

each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS



Suprema Inc.

17F Parkview Tower, 248, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13554, Rep. of KOREA

Tel: +82 31 783 4502 | Fax: +82 31 783 4503 | Inquiry: sales_sys@supremainc.com



For more information about Suprema's global branch offices,
visit the webpage below by scanning the QR code.
<https://supremainc.com/en/about/global-office.asp>