

SenseTime

SenseLink Enterprise AIoT Platform

V2.2.0

User Manual (v1.0)

www.sensetime.com





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Version	Date	Reviser	Content
V1.0	2020/04/17	Wenhan Zhang	New Document



1. Preface

This document is a guideline for SenseLink Enterprise Platform V2.2.0-p. It is suitable for enterprise administrators, IT operation & maintenance person and other direct users to read.

2. Product Introduction

SenseLink Enterprise Platform is an intelligent AIoT platform created by SenseTime Technology Co. The main function of this platform is device accessing and scenarios service for IT (intelligent terminal).

A SenseLink account is all you need to connect SenseTime devices such as SenseID, SenseHello, SenseKeeper, SensePass serious products, etc. to SenseLink. One-stop service can be obtained easily in many scenarios, such as comparison with face and ID card, face attendance, face check-in, welcome, facial access control, etc.

There are several modules in the SenseLink Platform: Device Management, Person Management, Access Management, Attendance Management Enterprise Management, etc. To help customers in enterprises, government agencies, smart communities, large-scale events, and other industries to quickly integrate face recognition services and all-round intelligent solutions, this system supports open platform access.

3. Start to Use

3.1 Activation

- Firstly, please read 《SenseLink Enterprise Platform Installation Manual》 before use, and install the SenseLink Enterprise Platform.
- Please obtain the License File and Activation Signature from SenseTime or our authorized vendors.
- Open browser, enter your SenseLink server address to visit SenseLink, you will be led to the activation page for the first time.
- Follow steps below to complete the activation process:

1. Copying **UDID** in the activation page;
2. Opening License File by Notepad, copy **License SN**.
3. Opening <http://license.sensetime.com/activation>, input Activation Signature, Device UDID, License SN, and get your Activation Code.
4. Back to SenseLink, input your Activation Code, upload the License file, click Activate button below, then submit.



Figure 3.1 SenseLink Activation

3.2 Login

The default account name and password are **admin1234** and **admin1234**.

* To ensure better user experience, we recommend you use Google Chrome, Firefox, and Safari browsers.



Figure 3.3 Login

- Please be sure to complete the following operations if this is your first login.
 - Please change your default password in '[Enterprise Management - Account Permissions](#)' ,
 - Then configure your mail service in '[Enterprise Management - Service Configuration](#)' . This service will be used to send an e-mail notification to other administer accounts when creating/modifying an administrator account.

4. Dashboard

After logging in, you will be taken to the dashboard page. Click the “gear” icon in the upper left corner to switch the board:

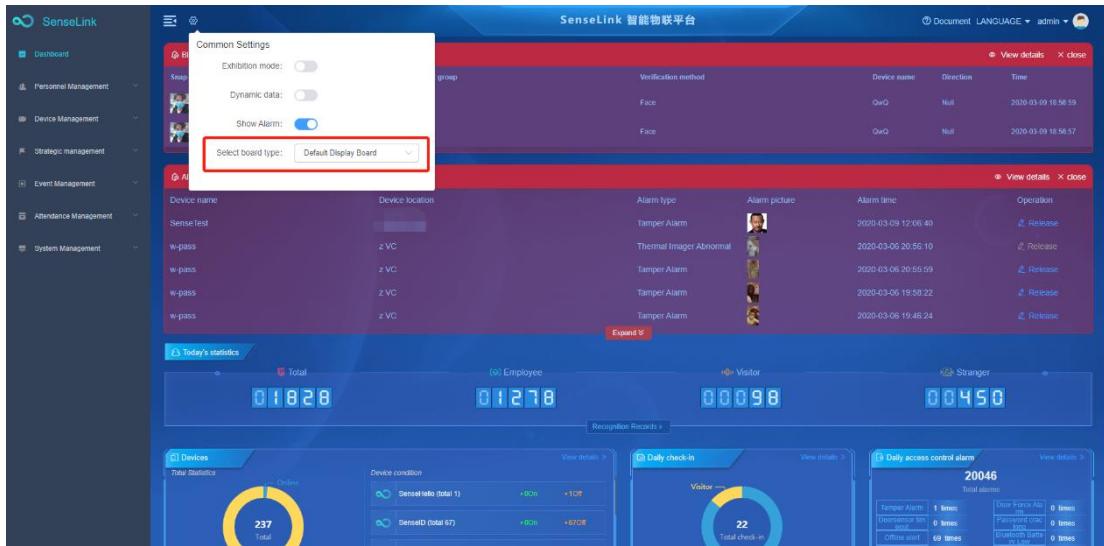


Figure 4.1 Dashboard

4.1 Default Dahsboard

On this page, it is easy to view the current device status, the number of face recognition, access control alarm, yesterday attendance statistics, etc..



Figure 4.2 Dashboard-Defaul Dashboard

When an abnormal alarm or a blacklist event occurs, an alarm would be shown on the dashboard in real-time, and could be remotely released.



Figure 4.3 Dashboard-Default Dashboard-Alarm

4.2 Body Temperature Monitoring

The supported devices and minimum versions are SenseThunder-E (v1.0.0)、SenseThunder-E mini (v1.0.0)、SenseThunder-W (v1.0.0)、SenseThunder-E GE (v1.0.3)。

You can monitor real-time body temperature records here:

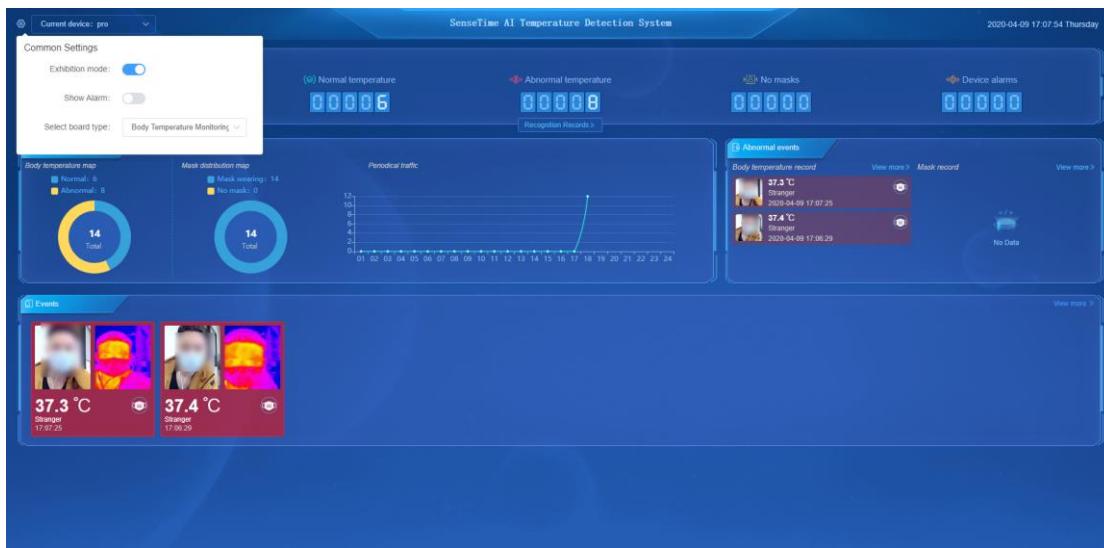


Figure 4.4 Dashboard-Body Temperature Monitoring

● Switch Devices

You can only choose online SenseThunder-E/SenseThunder mini/SenseThunder-W devices.

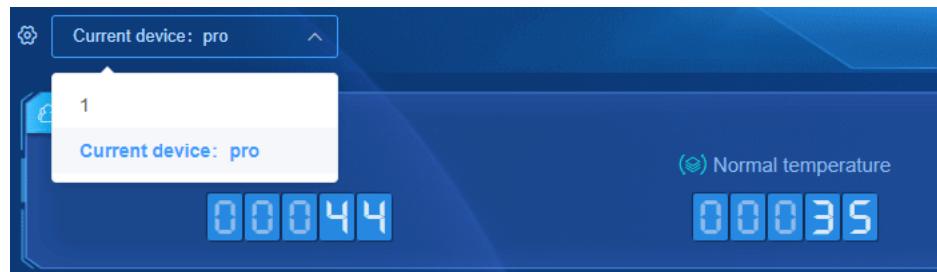


Figure 4.5 Dashboard-Body Temperature Monitoring-Switch Devices

- Exhibition Mode

Click the “gear” icon in the upper left corner and select “display mode” to hide the left navigation bar and other unrelated buttons. Open the browser’s full screen function (Chrome browser shortcut key is F11), you can view the temperature monitoring board in full screen.

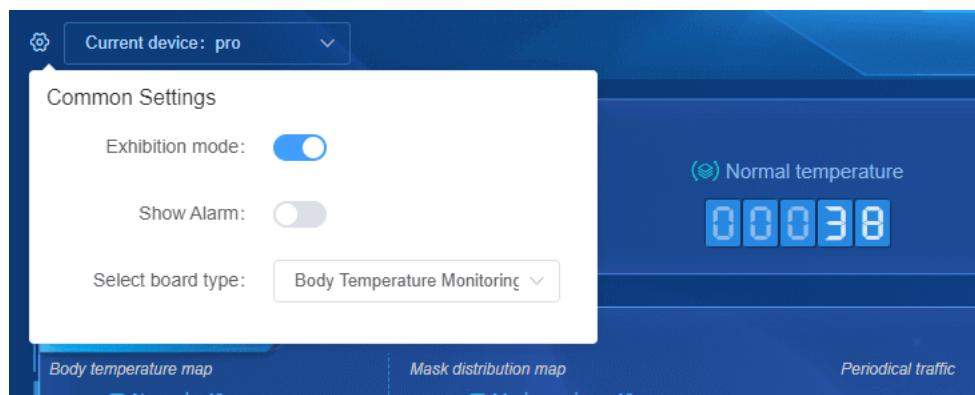


Figure 4.6 Dashboard-Body Temperature Monitoring-Exhibition Mode

When the device starts face recognition with temperature measurement, you can see the real-time event push on the dashboard and hear the voice broadcast.

When an abnormal temperature or not wearing masks occurs on the device, you can see the real-time alarm push on the dashboard.



Figure 4.7 Dashboard-Body Temperature Monitoring-Events

When an abnormal alarm, blacklist traffic, or abnormal temperature occurs on the device, you can see the real-time alarm push on the dashboard:

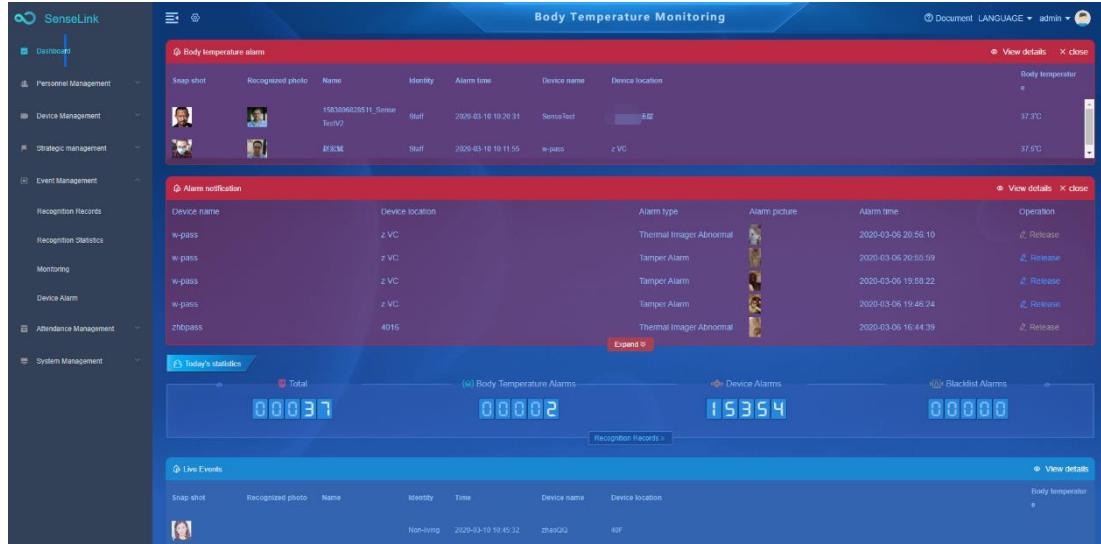
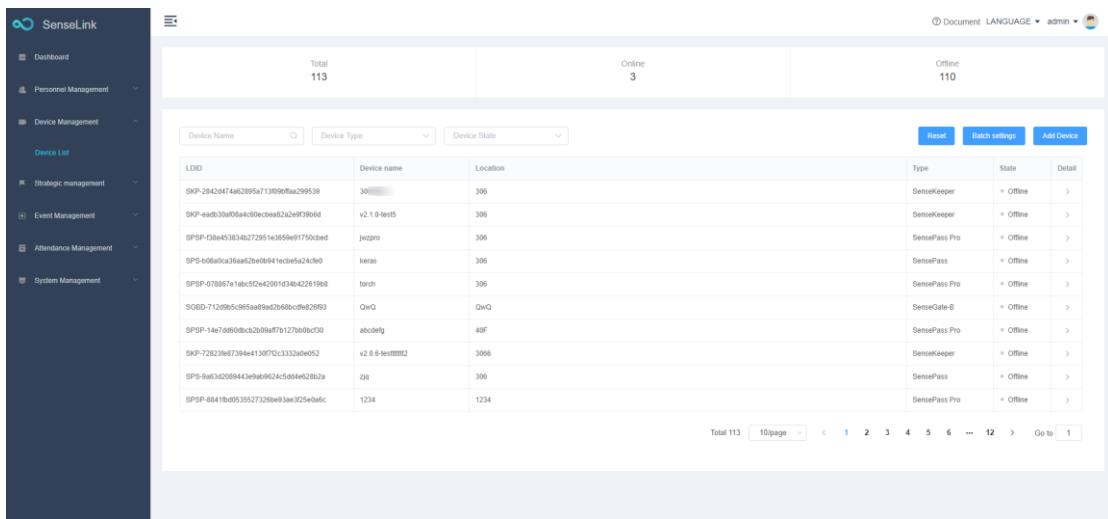


Figure 4.8 Dashboard-Body Temperature Monitoring-Alarm

5. Device Management

5.1 Add Device

Gateway (SenseNebula-M) and Device (IP Camera) can be added manually on SenseLink. Other devices like SenseKeeper or SensePass, will be automatically registered in the device list after a successful login at the devices. For more information about the supported IPCs, please refer to the product manual of SenseNebula-M.



ID	Device name	Location	Type	Status	Detail
SKP-2842d474a62995a711090efaa299539	301	306	SenseKeeper	Offline	>
SKP-ea030a00a4c0e0ea032a0e9309fd	v2.1.0-test5	306	SenseKeeper	Offline	>
SPSP-D9e45383a627295e3659ef1750bed	jeapro	306	SensePass Pro	Offline	>
SPS-600a0ca36aa026080841fecefa24cf0	keras	306	SensePass	Offline	>
SPSP-078807e1abc5f0e42001d34b4221988	torch	306	SensePass Pro	Offline	>
SGED-71295c9565a894ea26680c9ef26993	OnQ	OnQ	SenseGate-B	Offline	>
SPSP-1ae7d8960dbc2b09ff7b127bb0bcf30	abotcfg	40F	SensePass Pro	Offline	>
SKP-72823673944e4130f02c3333aeb052	v2.0.6-testffff2	3066	SenseKeeper	Offline	>
SPS-9af3d3d089443e9ab024245d5d46d2b2a	ZJL	306	SensePass	Offline	>
SPSP-8441fb053552732lob93ae325e0af0	1234	1234	SensePass Pro	Offline	>

Figure 5.1 Device List

5.2 Add Gateway

Please ensure the Gateway device has been turned on and operating well.

Please click the ‘Add device’ button first, and then choose the Gateway type. Fulfill all the Mandatory fields thereafter.

- Device name/ location: It aims to flag the device, and which could be changed within the Senselink platform.
- Device IP: The IP of Gateway devices.
- Port: Port of Gateway device. SenseNebula-M default Port is ‘80’
- User name: the User name of the Gateway device. The SenseNebula-M default User name is ‘admin’.
- Password: password of the Gateway device. The default password is‘admin’. To enhance the system safety level, changing the password after the first time login is recommended. Please refer to the product documents to get the operation menu.

SenseLink will create a connection with your Gateway device after the ‘connect’ click.

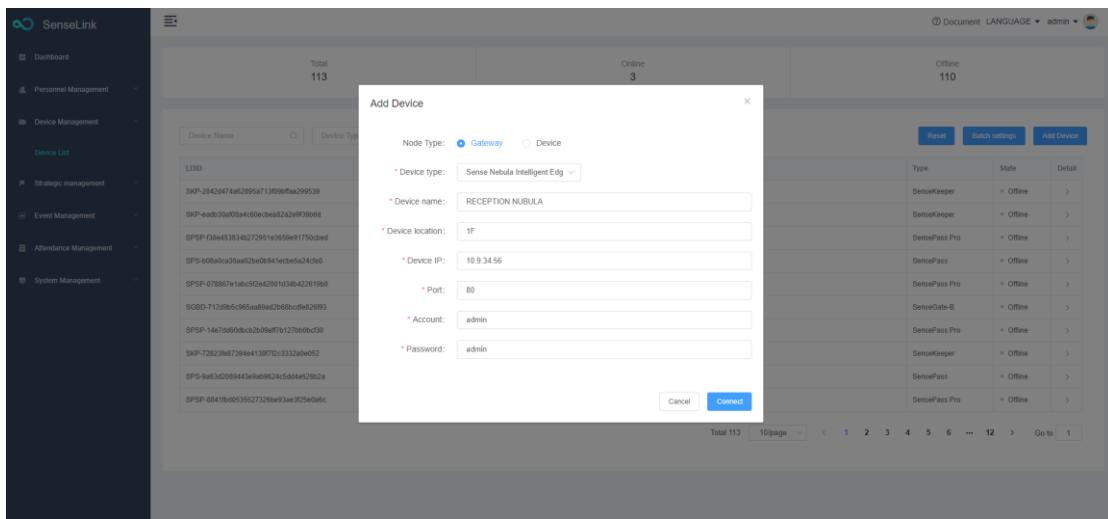


Figure 5.2 Add Gateway

5.3 Add IPC

Please ensure IPC (IP camera) and Gateway are in the same network environment, and the Gateway device operating well.

You have two methods to add IPC

- Method A: Change the device type to device firstly, and then choose the Gateway device to connect.

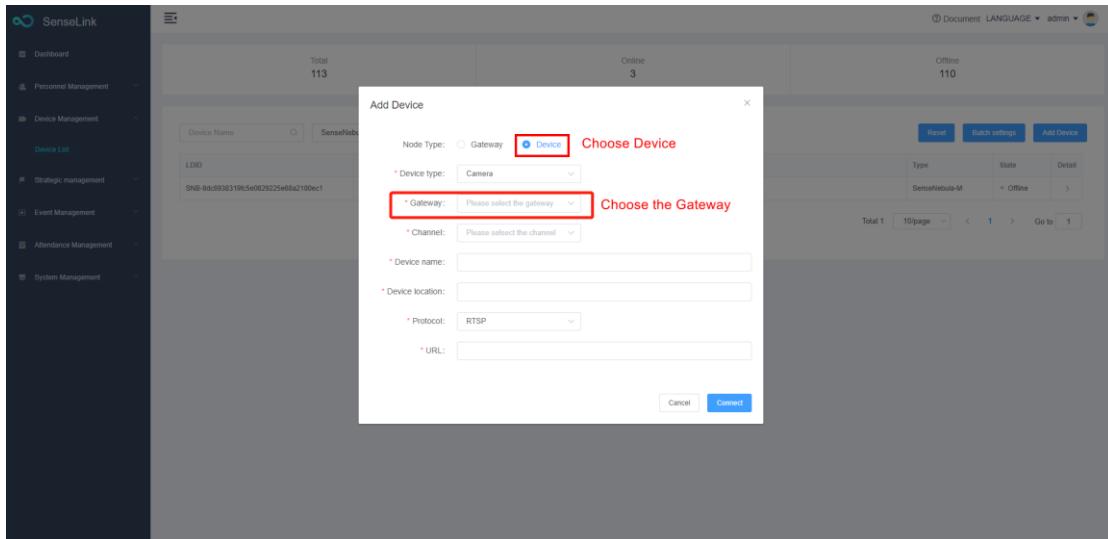


Figure 5.3 Add device (Method A)

- Method B:

Step-1: Find out the aim Gateway device firstly, Then display the detail information.

Step-2: Choose the sub-device tab.

Step-3: Click the ‘add Sub-device’ button.

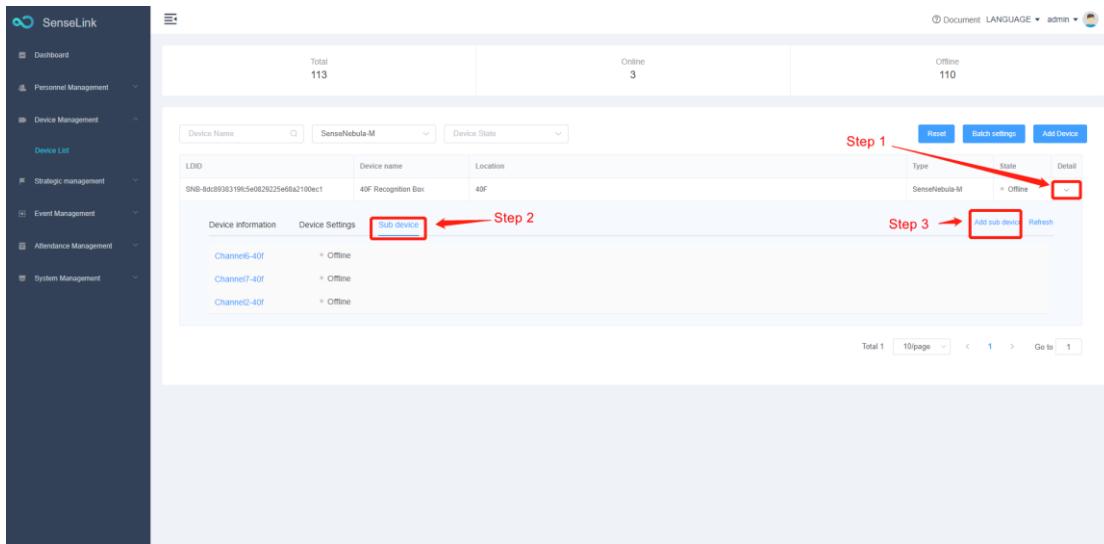


Figure 5.4 Add device (Method B)

Tips: SenseNebula-M now supports 3 types of video stream access protocol: RTSP, ONVIF, GB28181

● RTSP

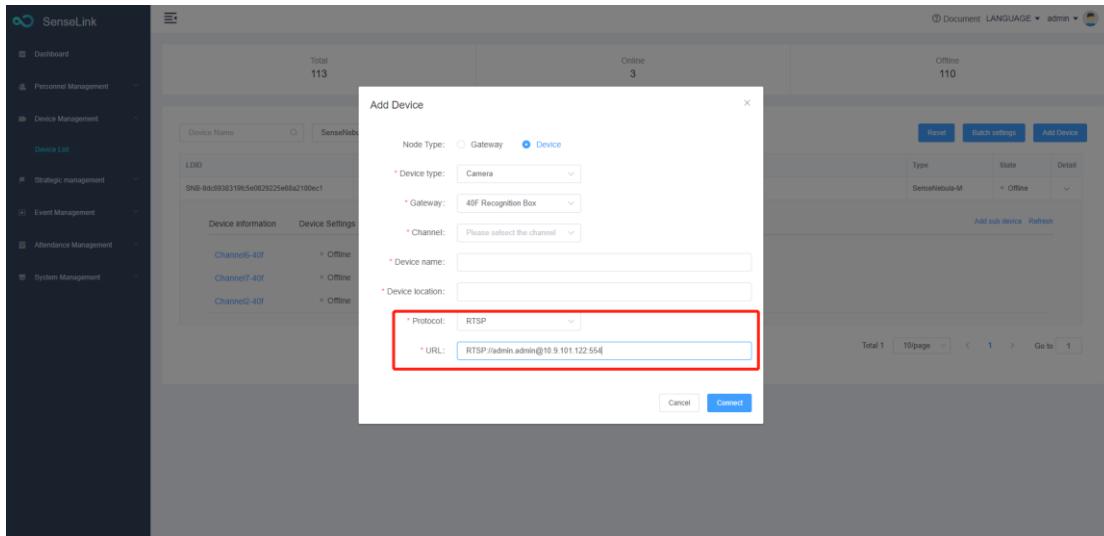


Figure 5.5 Video stream access by RTSP

● ONVIF

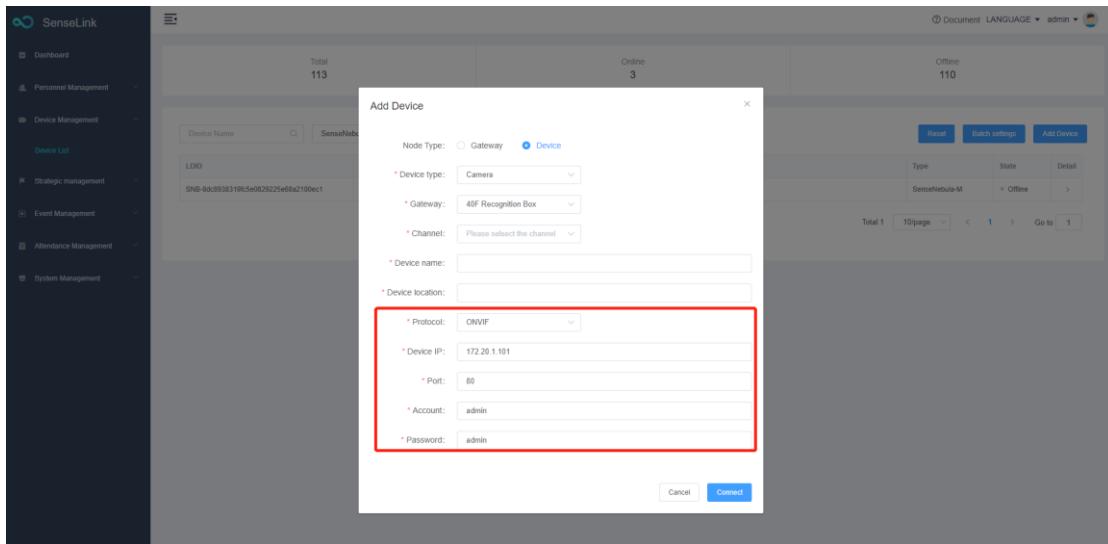


Figure 5.6 Video stream access by ONVIF

- GB28181

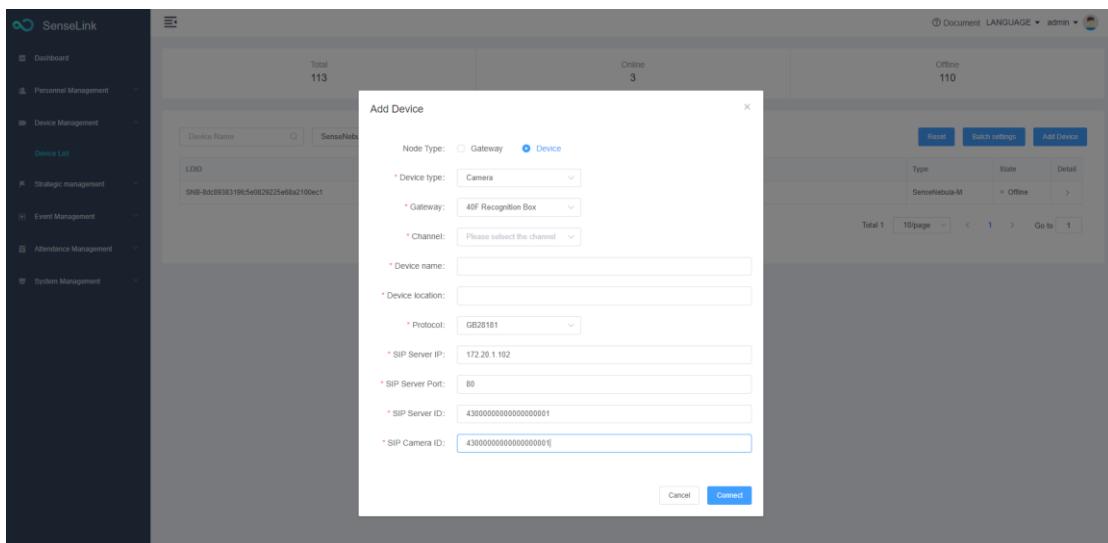


Figure 5.7 Video stream access by GB28181

Click ‘connect’ button, SenseLink will try to connect the IPC device by the Gateway device. When a connection has been built successfully, the IPC would be showed in the device list.

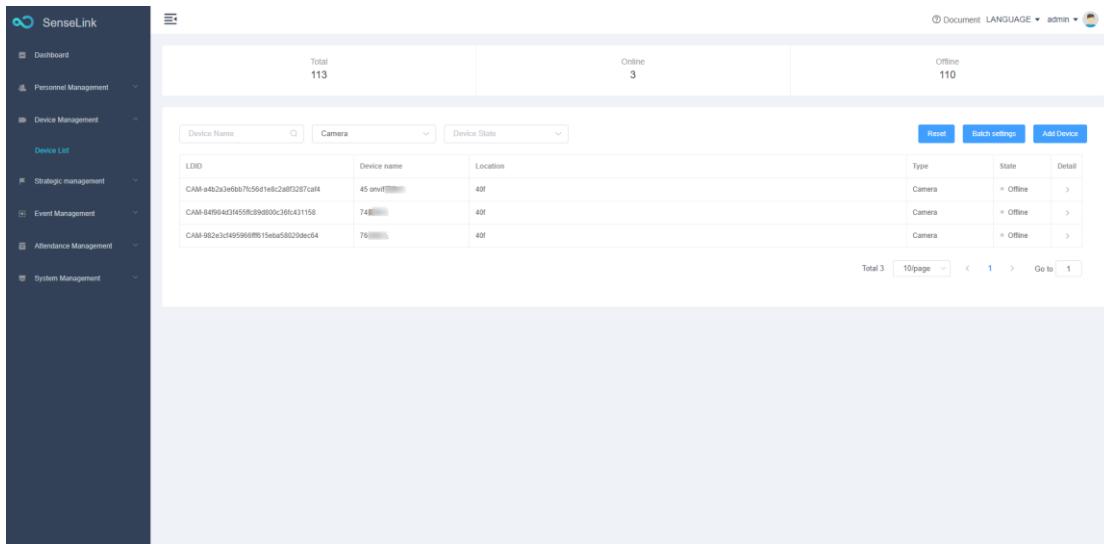


Figure 5.8 Device status

Besides that, you also could find the IPCs in SenseNebula-M detail pages as sub-device.

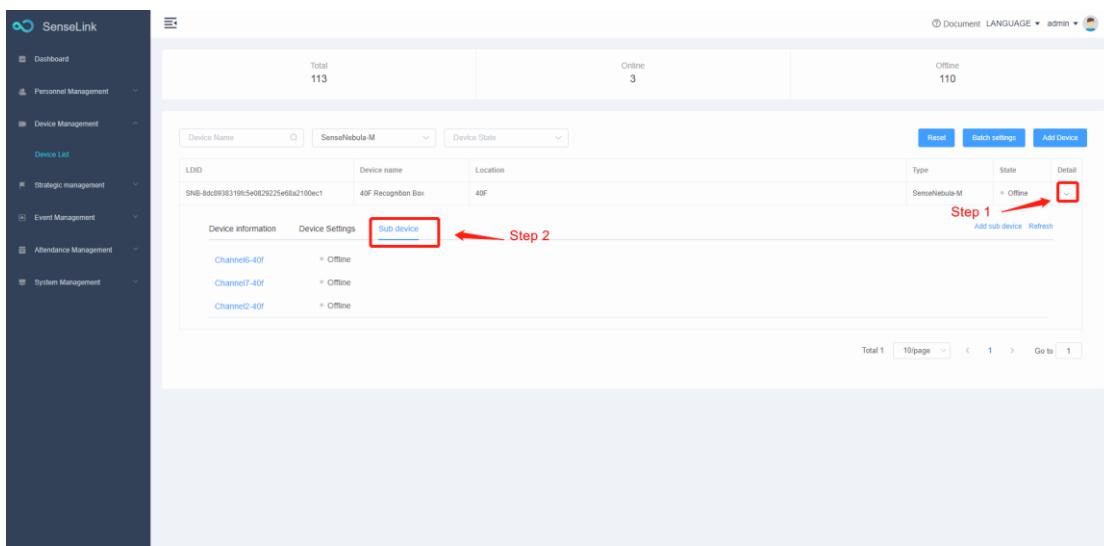


Figure 5.9 Sub-device of Gateway

5.4 Alter Device Information

Select the device and click “Details”. In “Device Information”, you can view the detailed information of the current device.

For devices that have been connected to the door sensor / thermal imager / bluetooth lock, you can also see real-time information such as the door sensor on / off status / thermal imager connection status / bluetooth lock power in the “device status” column:

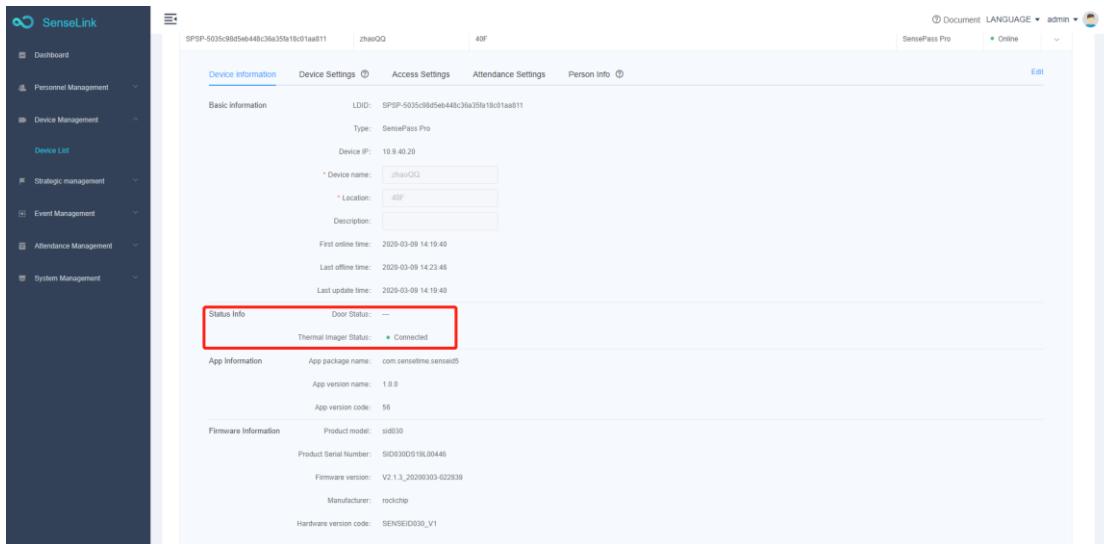


Figure 5.10 Device Status

Click Edit to modify the device name, location, description and other information:

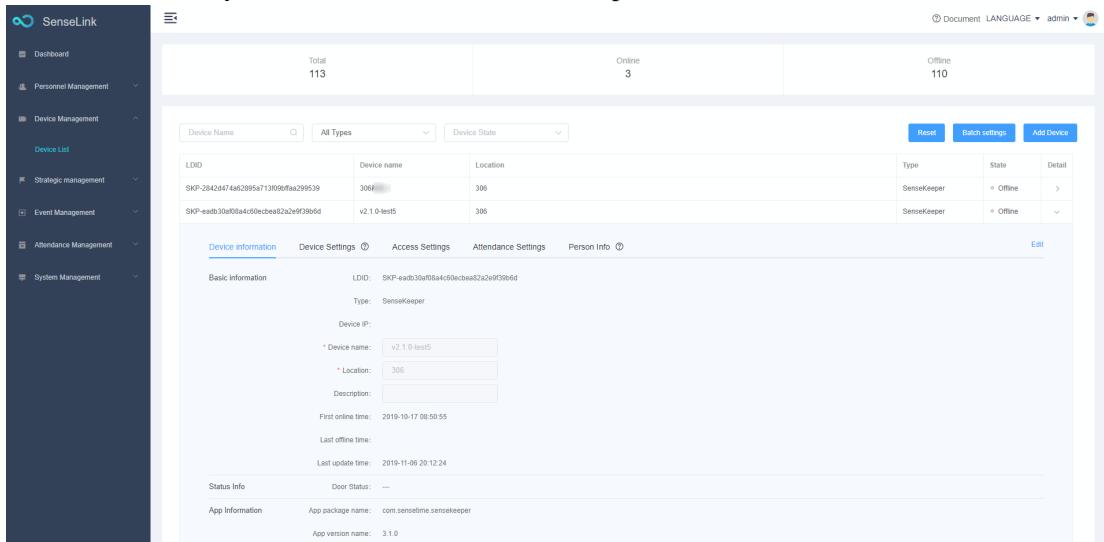


Figure 5.11 Device Details

5.5 Device Setting

5.5.1 By Single

In “Device List-Device Detail-Device Settings”, you can view or change the current device settings remotely.

Click the edit button on the right to modify the function settings. This operation is only supported for online devices.

* The supported devices and minimum versions are SensePass (v1.0.0)、SensePass Pro (v1.0.0)、SenseKeeper (v3.0.0)、SenseGate-B (v1.0.0) .

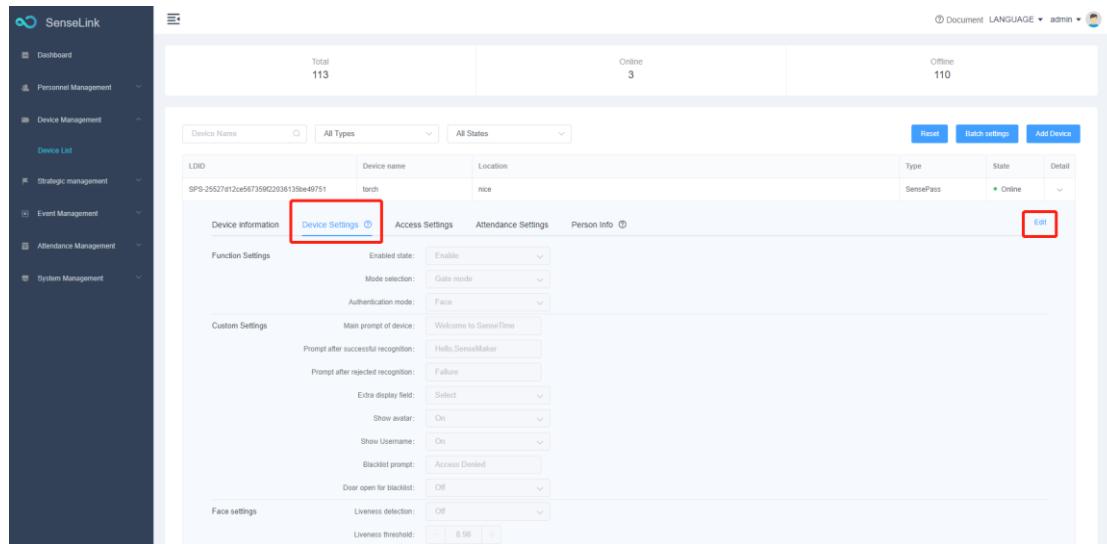


Figure 5.12 Device Setting – Single

As for SenseID, you can view or change visitors registration strategy and authentication strategy in “Device List-Detail-Visitors Registration”

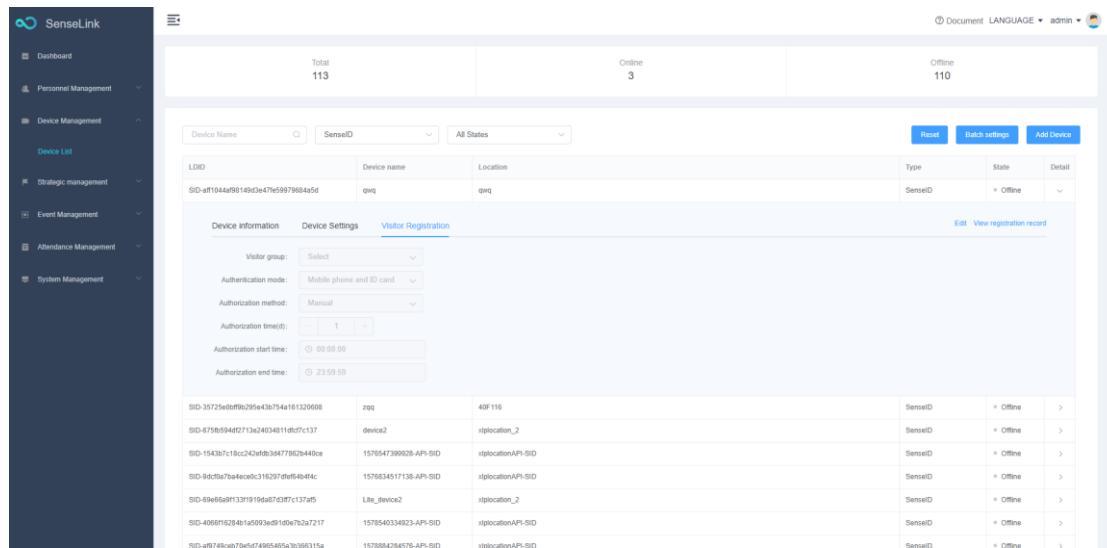
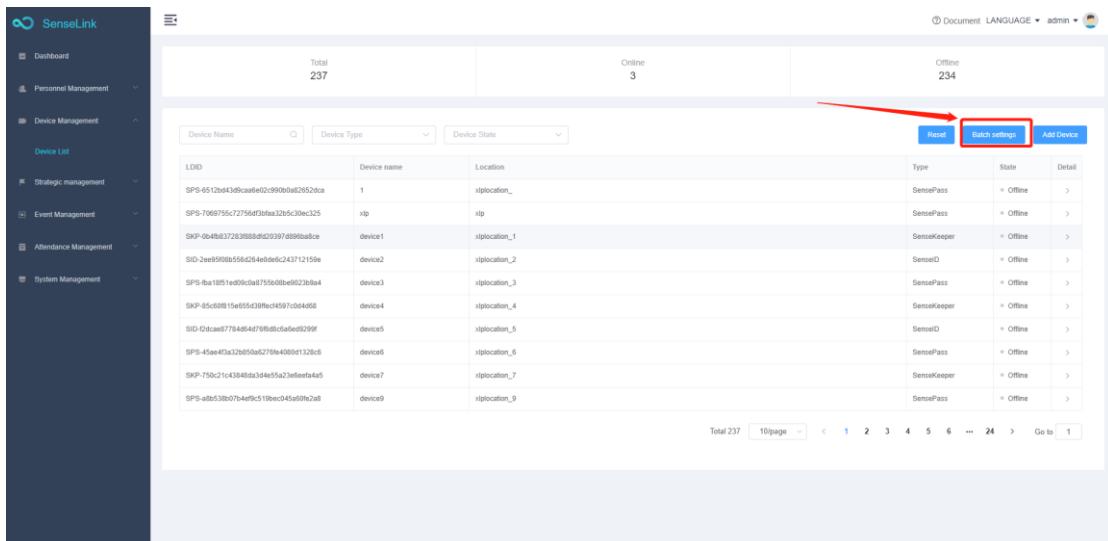


Figure 5.13 Device Setting – Visitor Registration

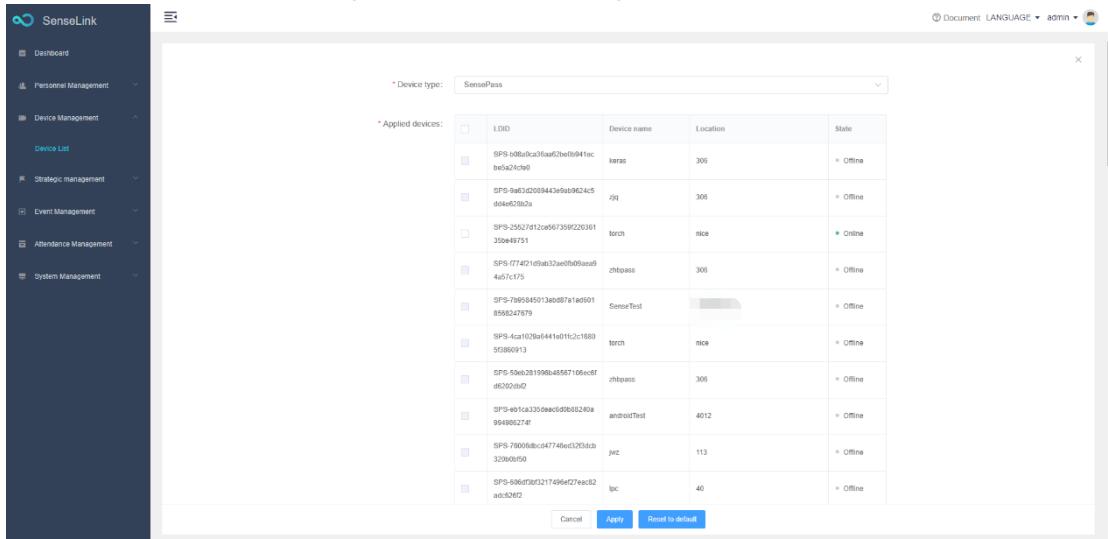
5.5.1 In Batches

Click “Device List - Bacth Settings”. You can update device settings for several devices of the same device type.



The screenshot shows the SenseLink Device Management interface. On the left is a sidebar with navigation options: Dashboard, Personnel Management, Device Management (selected), Strategic management, Event Management, Attendance Management, and System Management. The main area displays a table of devices. The table has columns: Device Name, Device Type, Device State, LID, Device name, Location, Type, State, and Detail. There are 237 total devices, with 3 online and 234 offline. At the bottom of the table, there are buttons for Reset, Batch settings (which is highlighted with a red box), Add Device, and a pagination section. A red arrow points to the 'Batch settings' button.

Figure 5.14 Device Setting – In Batches-1



This screenshot shows a detailed view of device settings for multiple devices. The sidebar on the left is identical to Figure 5.14. The main area is a modal dialog titled 'Device type: SensePass'. It lists 'Applied devices' with columns: LID, Device name, Location, and State. There are 10 devices listed, mostly offline. At the bottom of the dialog are 'Cancel', 'Apply', and 'Reset to default' buttons. A red arrow points to the 'Batch settings' button at the top right of the table header.

Figure 5.15 Device Setting – In Batches-2

5.6 Access Setting

For the access control devices, the ‘Staff group’ and the ‘Visitor group’ refer to the group of people that the current device can recognize. A device can be bound to multiple groups for flexible access control.

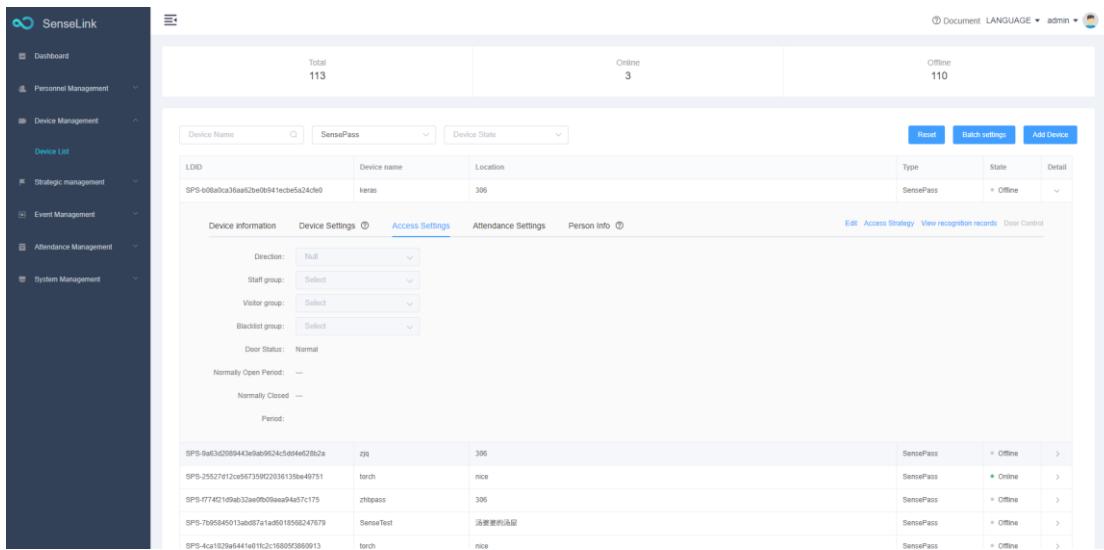


Figure 5.16 Access settings

5.7 Door Control

The system administrator could control the device to open/close the door remotely and set normally open/close periods. The operation will record in the log. The operation path is Device Management-Device List-Detail-Access Settings- Remote door open.

- * The device supporting the door open / close / normally open / normally closed function and the minimum version number is SensePass Pro (v1.3.0);
- * Only devices that support the remote door opening function and the minimum version number are SensePass (v1.2.0), SensePass Pro (v1.0.0), SenseKeeper (v3.0.0), SenseGate-B (v1.0.0).

5.7.1 Open door remotely

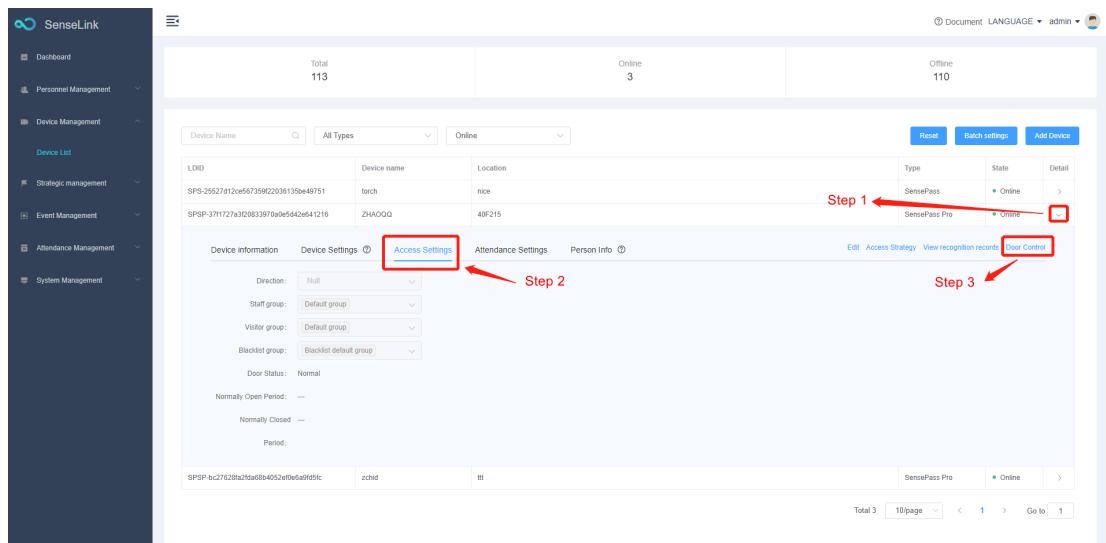


Figure 5.17 Open door remotely

5.7.2 Open/Close door normally

The devices can perform normally open and normally closed actions according to the prescribed timetable.

Please create a new normally open / normally closed schedule in “Strategy Management -Access Timetable”, and then associate it in door control:

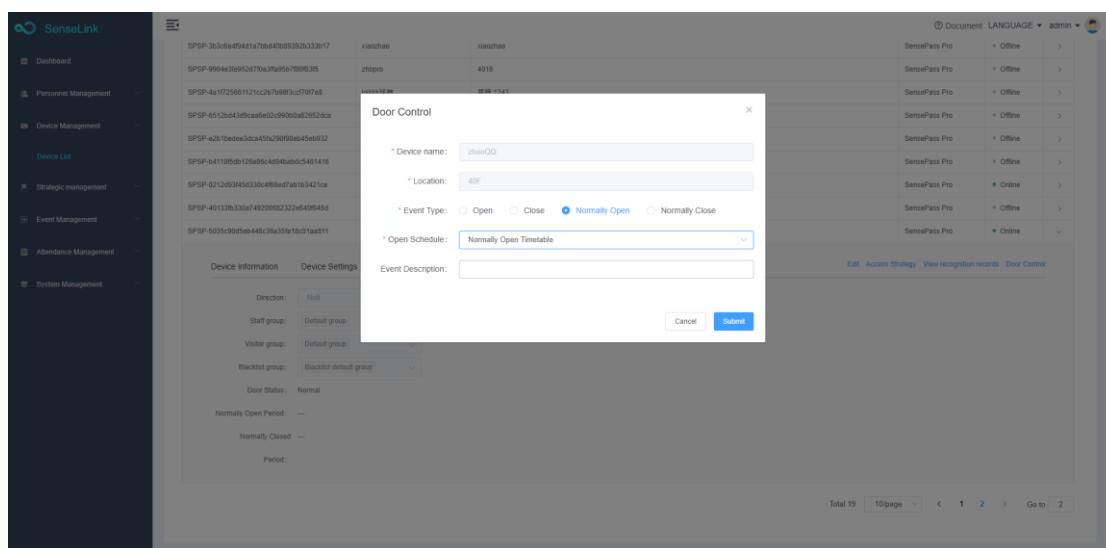
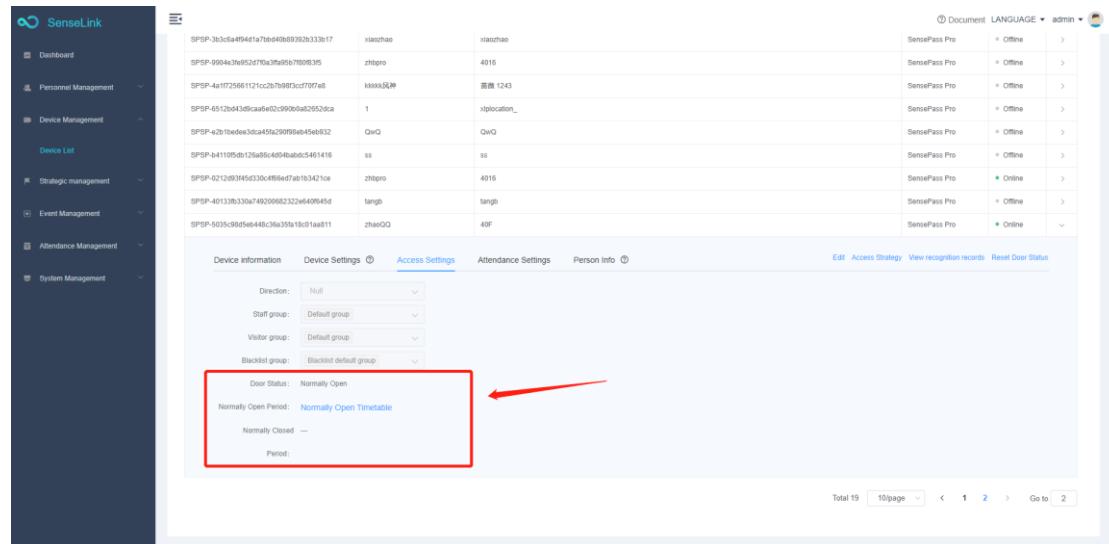


Figure 5.18 Open door Normally

After the association is completed, the access status of the device will change to “Normally Open” or “Normally Closed”:



ID	Name	Status
SFSP-3a3cfa49441a7bb40b89392b333b17	xiaozhao	xiaozhao
SFSP-9904e16952f70a599597b09835	zhtopro	4916
SFSP-4a17725661121cc2b7b99f3cf7f7e9	xxxxxx	设备 1243
SFSP-6112b43dcacae5e2990ba2b26526ca	1	xlocation_
SFSP-421bbedee3dc459a2999bae45eb932	QwQ	QwQ
SFSP-641105bd25a96c404ba0b5451416	ss	ss
SFSP-0212b3f45d330c49f66d7ab1b3421ce	zhtopro	4916
SFSP-40133b333a74920982322e40945d	tangb	tangb
SFSP-5035c98d5ab448c3fa35fa18c01aa811	zhaoQQ	49F

Device information Device Settings Access Settings Attendance Settings Person Info

Door Status: Normally Open

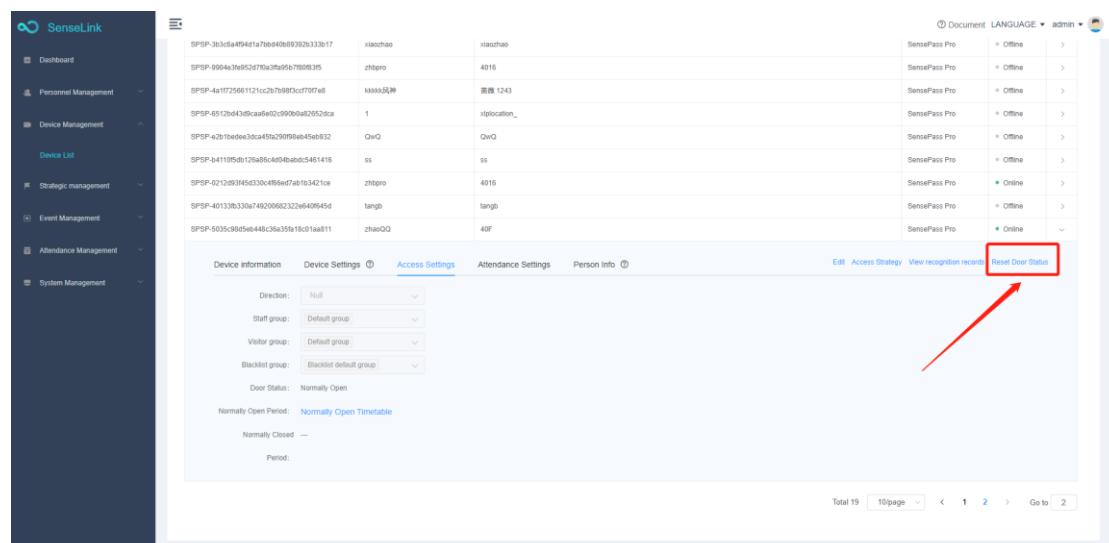
Normally Open Period: Normally Open Timetable

Normally Closed —

Period:

Figure 5.19 Open door Normally Status

For devices in the “normally open” or “normally closed” status, you can choose to reset door status:



ID	Name	Status
SFSP-3a3cfa49441a7bb40b89392b333b17	xiaozhao	xiaozhao
SFSP-9904e16952f70a599597b09835	zhtopro	4916
SFSP-4a17725661121cc2b7b99f3cf7f7e9	xxxxxx	设备 1243
SFSP-6112b43dcacae5e2990ba2b26526ca	1	xlocation_
SFSP-421bbedee3dc459a2999bae45eb932	QwQ	QwQ
SFSP-641105bd25a96c404ba0b5451416	ss	ss
SFSP-0212b3f45d330c49f66d7ab1b3421ce	zhtopro	4916
SFSP-40133b333a74920982322e40945d	tangb	tangb
SFSP-5035c98d5ab448c3fa35fa18c01aa811	zhaoQQ	49F

Device information Device Settings Access Settings Attendance Settings Person Info

Door Status: Normally Open

Normally Open Period: Normally Open Timetable

Normally Closed —

Period:

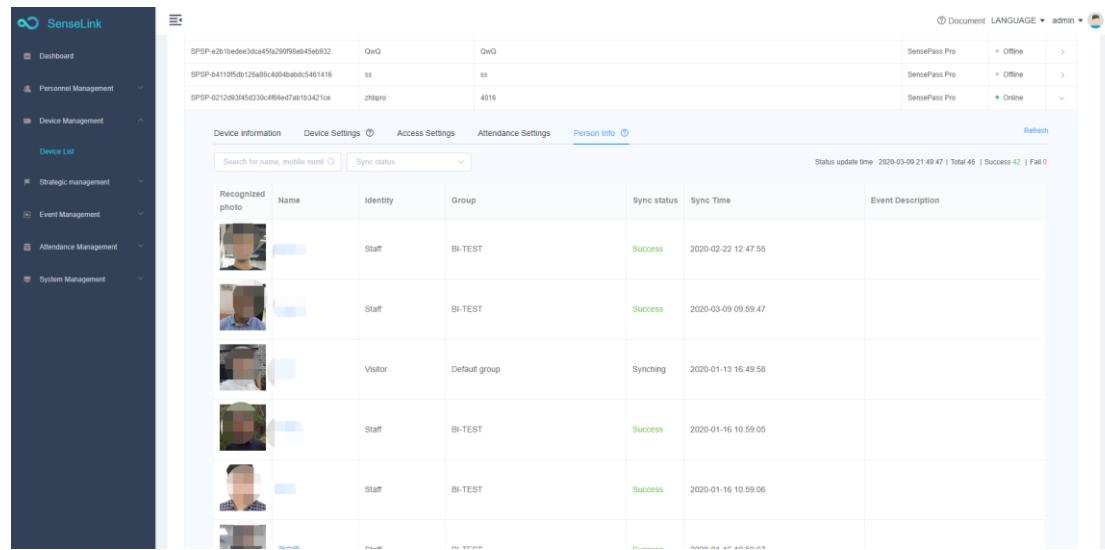
Edit Access Strategy View recognition records Reset Door Status

Figure 5.20 Restore Normally Open door

5.8 Check Sync Status of Facial Images

You can check the sync status of facial images and data statistics. As for sync failure, you can click “Event Description” for alarm details.

* For now, this feature is available on the following products & minimum version:
SensePass(v1.4.0), SensePass Pro(v1.2.0)



The screenshot shows the SenseLink software interface. On the left is a dark sidebar with a navigation menu:

- SenseLink
- Dashboard
- Personnel Management
- Device Management
 - Device List
 - Strategic management
 - Event Management
 - Attendance Management
 - System Management

The main area displays a table of sync status for three devices:

Device	QoS	QoS	Status
SFSP-6231bedee30ca45fa29099be45eb932	ss	ss	SensePass Pro (Offline)
SFSP-b411095db126a96c4d04bab05401415	ss	ss	SensePass Pro (Offline)
SFSP-0212693f45d330c4896e67abfb3421ce	ztspro	4016	SensePass Pro (Online)

Below this is a detailed table of sync status for individual persons:

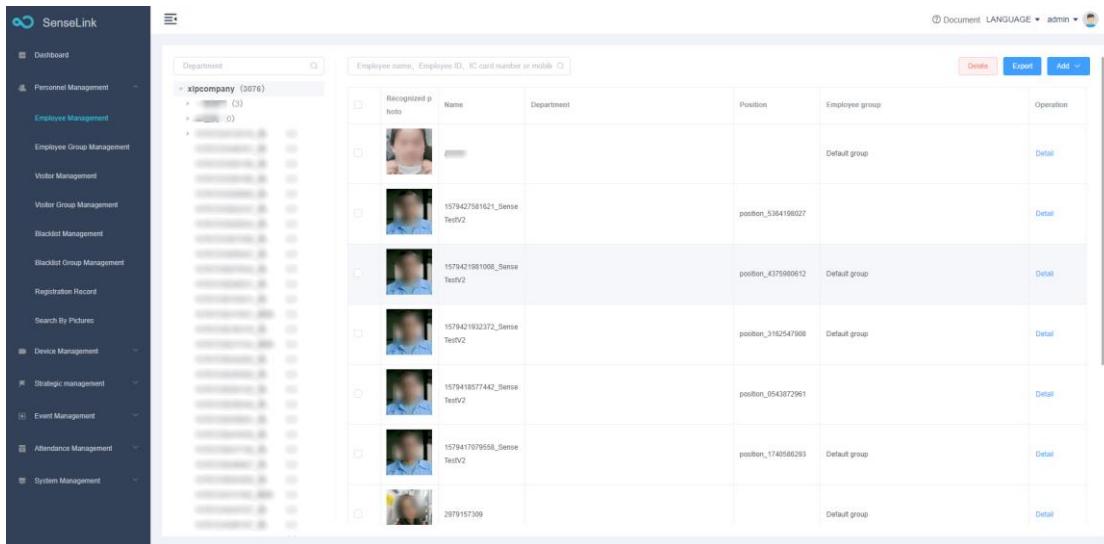
Recognized photo	Name	Identity	Group	Sync status	Sync Time	Event Description
	Staff	BI-TEST		Success	2020-02-22 12:47:55	
	Staff	BI-TEST		Success	2020-03-09 09:59:47	
	Visitor	Default group		Syncing	2020-01-13 16:49:58	
	Staff	BI-TEST		Success	2020-01-16 10:59:05	
	Staff	BI-TEST		Success	2020-01-16 10:59:06	
	Staff	BI-TEST		Success	2020-01-16 10:59:07	

Figure 5.21 Check sync status of facial images

6. Person Management

6.1 Department Management

Choosing a department on the left side, then click the corresponding button to create department, alter department information or delete a department.



Recognized photo	Name	Department	Position	Employee group	Operation
	1579427581621_Sense TestV2		position_5364198027	Default group	Detail
	1579421981009_Sense TestV2		position_4375980912	Default group	Detail
	1579421932372_Sense TestV2		position_3162547908	Default group	Detail
	1579418577442_Sense TestV2		position_0543872961		Detail
	15794170709558_Sense TestV2		position_1740586293	Default group	Detail
	2979157309			Default group	Detail

Figure 6.1 Department Management

6.2 Employee Management

6.2.1 Add Employee

There are four ways to add employee/visitor in the SenseLink Enterprise AIoT Platform.

- SenseLink Platform
- SenseLink Lite App
- SenseID device
- SenseLink toolkits application (add staff only)

Please refer to < SenseLink Enterprise V2.0.0-p Face Registration Guide > for more information.

6.2.2 Search Employee

You can search for employees by department, name or telephone number.

6.2.3 Alter Employee Information

Click ‘Detail’, then click ‘Edit’ on the Detail page to alter employee information.

You can also use SenseLink Toolkit for editing employee information in batches.

Please download and login SenseLink ToolKit, and click “Employee Management - Batch Modify”.

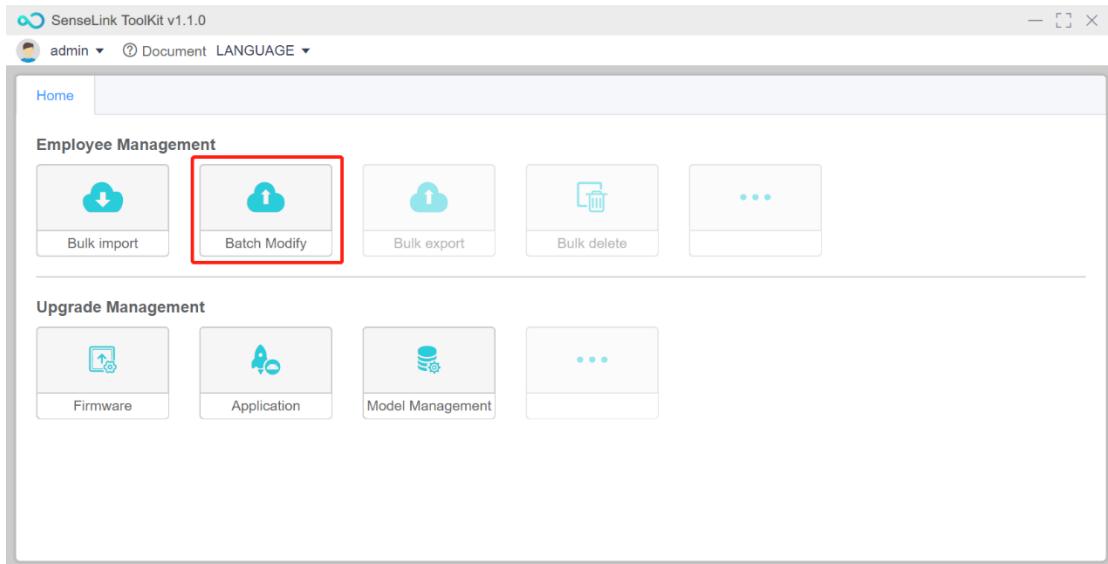


Figure 6.2 Batch Modify

Click “Export employee list”:

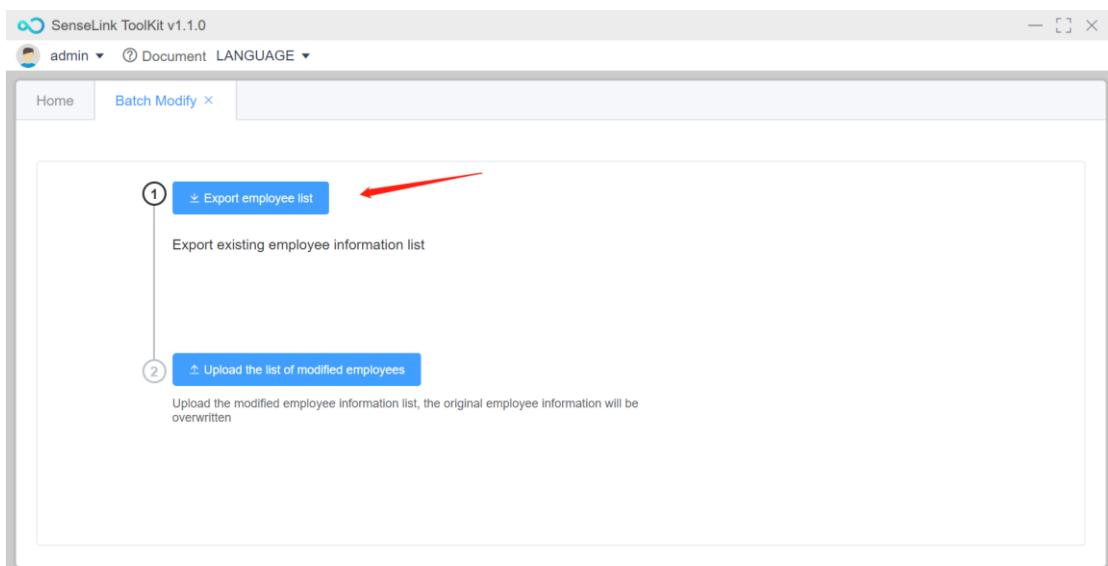


Figure 6.3 Export Employee List

Modify employee information in the export employee list.

Template for Batch Modify																	
<small> Prompt: <>1> This form can be used to batch modify employee information in SenseLink Toolkit V1.1.0 and above. <>2> Since it is a copy function, you need to copy the information from the original system to a new Excel file and upload it. <>3> Do not add multiple rows of employee information categories in this template. <>4> ID is user unique index in SenseLink system will modify user info according to this. <>5> Name is a required field, and the others are optional fields. Phone number/EmpLOYEE number/IC card number/ID number of different employees cannot be duplicated. <>6> Phone number: China mainland phone number can be directly filled in, and the mobile phone number in foreign countries, Hong Kong, Macao and Taiwan areas needs to add the area code, such as +86-00000; <>7> Employee Group: You can add/delete/move group for every personnel (you can use this to accomplish batch migration between groups). It is recommended to fill in the “默认组” (means “default group” and must be written in Chinese. Customized group can be written in any language); Multiple employee groups are separated by the comma “,”; <>8> Department: The system will automatically generate the department structure based on this table. The lower and higher departments are separated by “/”, and starting from the highest level department, such as “Overseas Business Group-Marketing Team”, one employee can only have one department; <>9> Date format: YYYY-MM-DD, such as 2018-08-13; </small>																	
d	Name	Phone number	Department	Position	Employee number	Head of this department (HOD)	E-mail	Extension number	Working place/IC card number	ID card number	Entry date	Birthday	Employee group	Custom prompt	Remark		
3_1	Gary_P00159	18811111110	marketing	marketing manager	10012	Y	jhjiang@163.com	787-787978-78979	chengdu	1234567000	4566	1993-02-10	default group	Welcome			
3_2	Hsia Seng_Phoen_501581	13811111111	HR	HR staff	10013	N	hsia@163.com	787-787978-78979	beijing	1234567001	2010-11-25	1988-07-10	default group	Welcome			
3_3	Howard_Lee_	13444379404	Tech	test	9061695729	Y	adad@sensetime.com	787-787978-78979	shanghai	982748791	666666	1900-09-09	1900-09-09	default group	Welcome	AddUser	
3_4	Huang Si_Wu_501749	85189789			9558666529	N				4576870127	53002419550203630		2007-03-24	default group	Welcome	AddUser	

Figure 6.4 Template for Batch Modify

Back to SenseLink Toolkit, click “Upload the list of modified employees” and upload the modified

employee list.

* In order to save processing time for less waiting time, please only keep modified employee information and discard the original employee information.

It is only for batch modification rather than batch delete. The employee information not in the Excel will not be deleted.

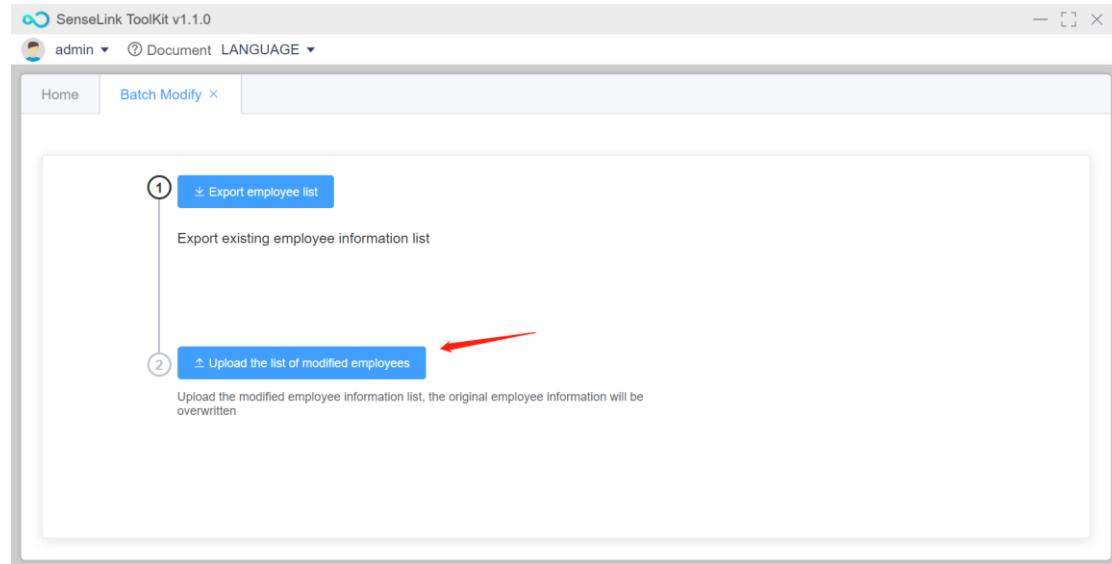


Figure 6.5 Upload modified employee list

You can see the updated employee information in the SenseLink web GUI while the uploading process finished.

6.2.4 Delete Employee

Check the employees that need to be deleted, click ‘Delete’. Deletion will complete after the second confirmation.

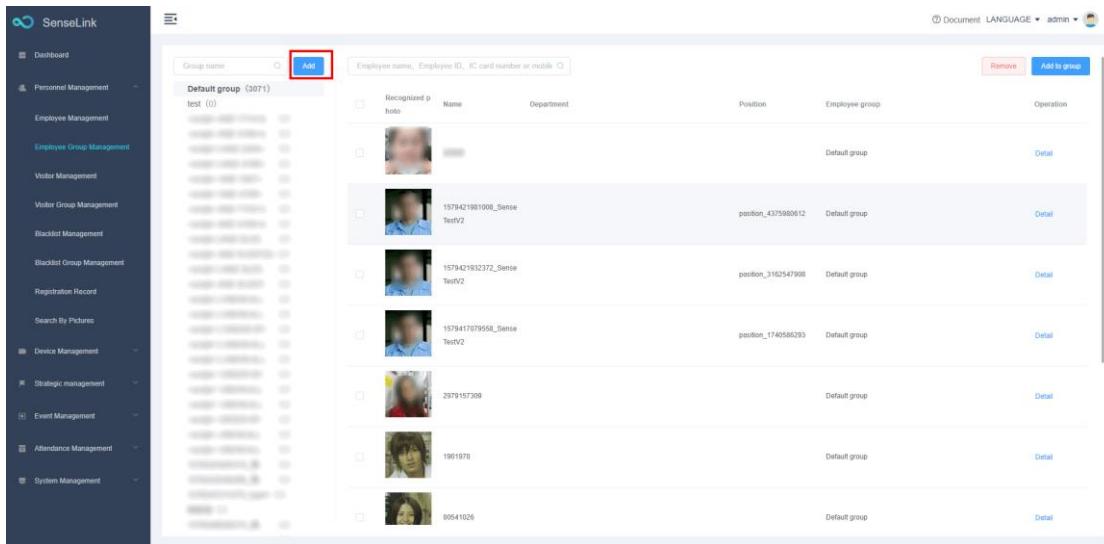
6.2.5 Export Employee Information

Click ‘Export’ to export the Excel table of employee information.

6.3 Employee Group Management

Employee group is the collection of employees, and an employee can belong to multiple employee groups.

You can achieve flexible access control by binding different employee groups to different devices.



Recognized photo	Name	Department	Position	Employee group	Operation
	...			Default group	Detail
	1579421981008_Sense TestV2		position_4375980612	Default group	Detail
	1579421932372_Sense TestV2		position_1162147908	Default group	Detail
	1579417079558_Sense TestV2		position_1740586293	Default group	Detail
	2979157389			Default group	Detail
	1901978			Default group	Detail
	80541026			Default group	Detail

Figure 6.6 Employee Group Management

6.3.1 Add Employee Group

Click ‘Add’ to create a new Employee Group.

6.3.2 Search Employee Group

You can search Employee Group easily by group name.

6.3.3 Add Employee to Employee Group

Choose a group and click, then click ‘Add to group’ on the right corner to add the employee to this group. You can add individual employees or departments to a single group. Click ‘Remove’ to remove any employee or department you want.

6.3.4 Remove Employee from Employee Group

After selecting the employee group, check the employees who need to move out, click ‘Remove’, and then remove it after the second confirmation. Employees will be removed from this group only; the employee isn’t deleted.



6.3.5 Migrate Batch Employees between Employee Groups

It is convenient to use the toolkit to migrate batch employees between employee groups.

It is as same as the [Alter Employee Information](#)

6.4 Visitor Management

6.4.1 Add Visitor

There are 3 methods to add visitor in SenseLink Enterprise Platform:

- SenseLink website
- SenseLink Lite App
- SenseID device

Please refer to < SenseLink Enterprise V2.0.0-p Face Registration Guide > for more information.

6.4.2 Search Visitor

You can search for visitor information by name or state.

6.4.3 Alter Visitor information

Click ‘Detail’ first, then click ‘Edit’ to alter visitor information.

6.4.4 Delete Visitor

Check visitor name first, then click ‘Delete’, the information will delete after second confirmation.

6.5 Visitor Group Management

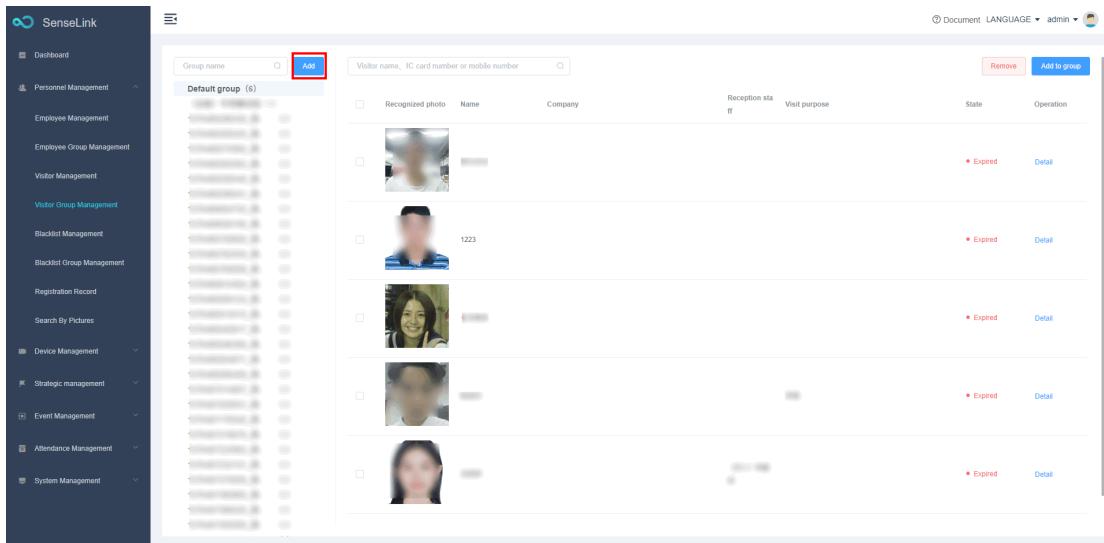


Figure 6.7 Visitor Group Management

The operation is similar to the management of the employee group.

6.6 Blacklist Management

* For now, this feature is available on the following products & minimum version:
SensePass(v1.2.0), SensePass Pro(v1.0.0), SenseKeeper(v3.0.0).

Blacklist is a similar concept to an employee/visitor, but mutually exclusive, can be applied to deploy or set a focus. You can turn an existing employee or visitor into a blacklist or recreate a blacklisted person.

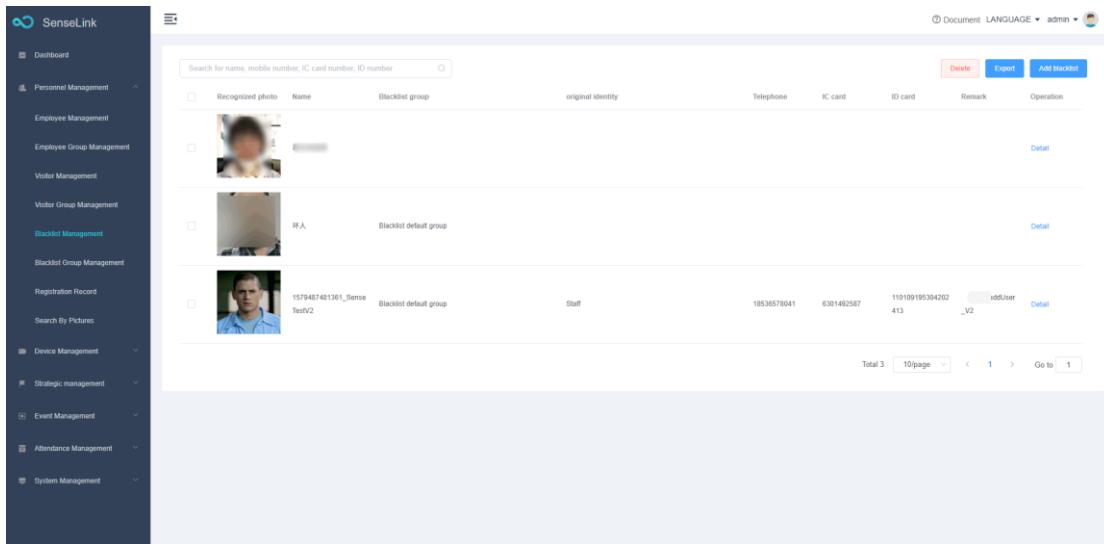
The blacklist group needs to be bound to the device to take effect. It also supports the Access Strategy set. You can configure the blacklist prompt in the device list, whether the Blacklist Open Door is on or off.

When the blacklist person's face has shown up in front of the device, the SenseLink console will have a real-time blacklist alert. You can process the records of the blacklisted person by calling the identification record push interface-OpenAPI to customize your blacklist alarm function.

T

here are two ways to add blacklist person:

- SenseLink website: Create new blacklist member
- SenseLink website: Move into blacklist from existing employee/ visitor.



The screenshot shows the SenseLink software interface for Blacklist Management. On the left is a dark sidebar with various management options. The main area displays a table of blacklisted individuals. The columns include 'Recognized photo', 'Name', 'Blacklist group', 'original identity', 'Telephone', 'IC card', 'ID card', 'Remark', and 'Operation'. There are three entries in the table:

- Entry 1: Name is 'A', Blacklist group is 'Blacklist default group'.
- Entry 2: Name is 'B', Blacklist group is 'Blacklist default group'.
- Entry 3: Name is 'C', Blacklist group is 'Blacklist default group', and it includes detailed information like Staff, ID: 101099195304202, and Date: 11/03/2020.

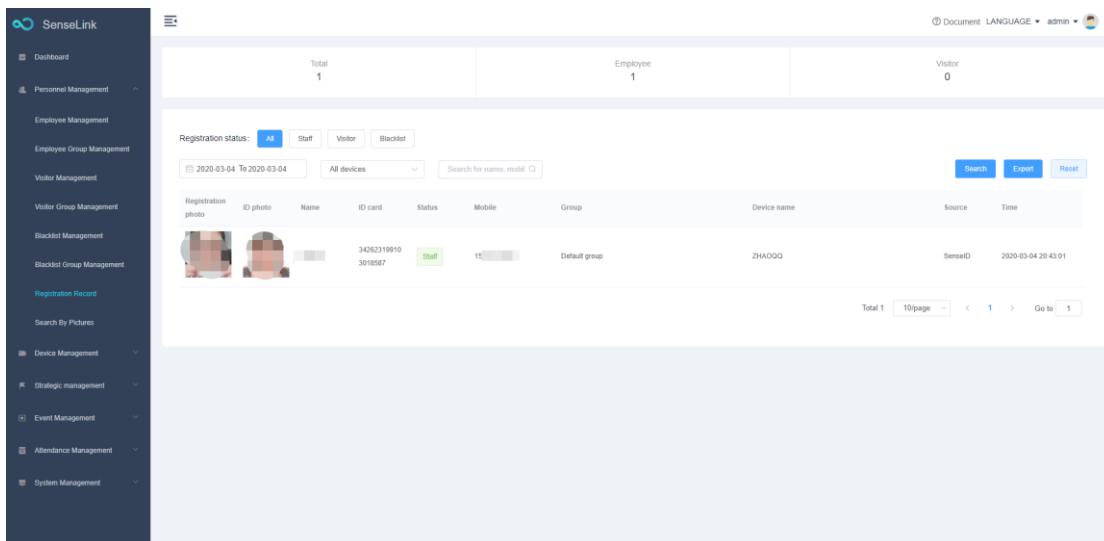
Figure 6.8 Blacklist Management

* After the employee/visitor is blacklisted, it can also be removed out from the blacklist on the details page, and the original identity will be restored after removal.

6.7 Blacklist Group Management

The operation is similar to the management of the employee/visitor group. So, we will not describe here.

6.8 Registration Record



The screenshot shows the SenseLink software interface for Registration Record. The left sidebar has a similar structure to the other management pages. The main area shows a table of registered individuals. The columns include 'Registration photo', 'ID photo', 'Name', 'ID card', 'Status', 'Mobile', 'Group', 'Device name', 'Source', and 'Time'. One entry is visible in the table:

		Name	ID card	Status	Mobile	Group	Device name	Source	Time
		342623199103010567	Staff	11		Default group	ZHAOQQ	SenseID	2020-03-04 20:43:01

Figure 6.9 Registration Record

Supports searching for registration records by registration status, registration date, registered device or employee name. Exporting records are supported.

6.9 Search people by photo

Upload the facial image, and set the compare threshold & Top N, then Senselink would display the ones to meet the conditions.

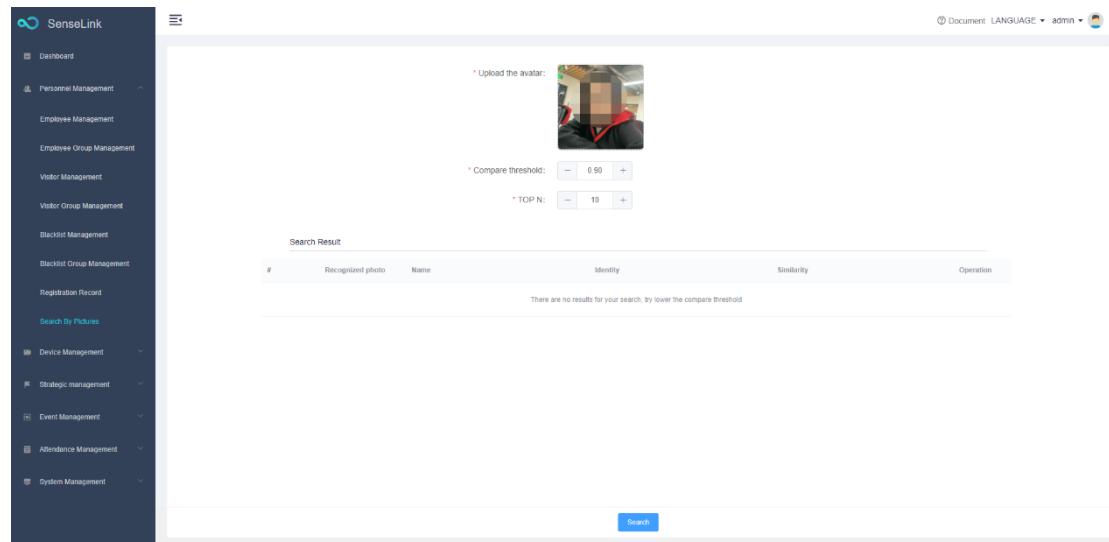


Figure 6.10 Registration Record

7. Strategy Management

7.1 Timetable

Timetable is used to specify a schedule for access.

You can achieve time-based access control for devices and people by creating new timetables and access strategy.

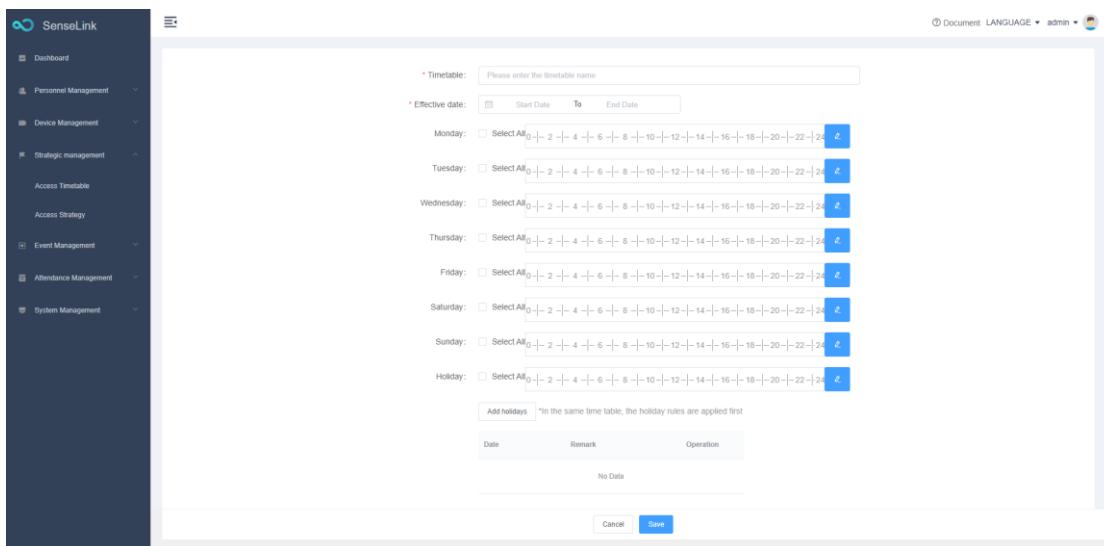
* For now, minute-precision-timetable is only available on SensePass(v1.4.0), SensePass Pro(v1.2.0) . Other are compatible with half-hour-precision-timetable.



The screenshot shows the SenseLink software interface. On the left is a dark sidebar with a navigation menu. The main area displays a list of timetables. At the top left of the list area, there is a blue 'Add' button with a white outline, which is highlighted with a red rectangular box. To the right of the list, there is a table with columns for 'Operation' and 'Detail' / 'Delete' links for each timetable entry.

Figure 7.1 Timetable

Click ‘Add’ to add a new timetable.



This screenshot shows the 'Add Timetable' dialog box. On the left is the same dark sidebar as Figure 7.1. The main area contains a form for creating a new timetable. It includes fields for 'Timetable' (with a placeholder 'Please enter the timetable name') and 'Effective date' (with 'Start Date' and 'End Date' dropdowns). Below these are seven rows, one for each day of the week (Monday through Sunday), each with a 'Select All' button and a small edit icon. At the bottom of the dialog are buttons for 'Cancel' and 'Save'.

Figure 7.2 Add Timetable

You can define the daily passing time by clicking the edit small icon on the right side of each day. Click the ‘+’ sign to increase the period.

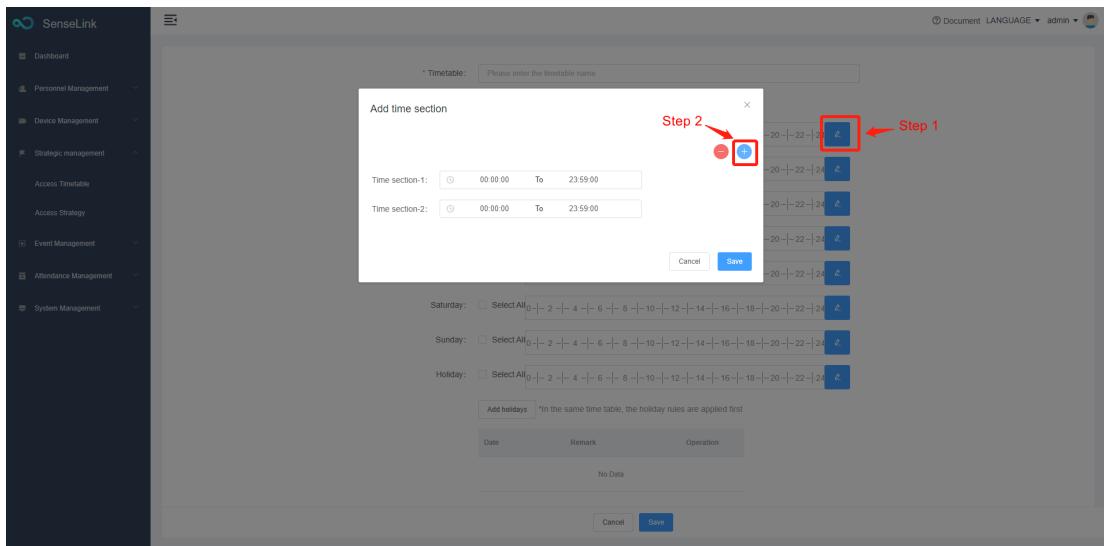


Figure 7.2 Add Time Slots

7.2 Access Strategy

* For now, this feature is available on the following products & minimum version: SensePass (v1.0.0), SensePass Pro (v1.0.0), SenseKeeper (v3.0.0), SenseGate-B (v1.0.0).

The Access Strategy is used to specify when and who can access the device.

You can select an existing device and device- person group, then bind the corresponding Access Timetable. The Access Strategy will send to the corresponding device.

Select device	Select personnel g.	Select timetable	Header	New	Multi Delete
<input type="checkbox"/> device4	1576834339811_type5	Blacklist group	1233		
<input type="checkbox"/> device4	1576834339811_type2	Visitor group	1233		
<input type="checkbox"/> device4	1576834339811_type1	Employee group	1233		
<input type="checkbox"/> device4	1576547211270_type5	Blacklist group	1233		
<input type="checkbox"/> device4	1576547211270_type2	Visitor group	1233		
<input type="checkbox"/> device4	1576547211270_type1	Employee group	1233		

Figure 7.4 Access Strategy List

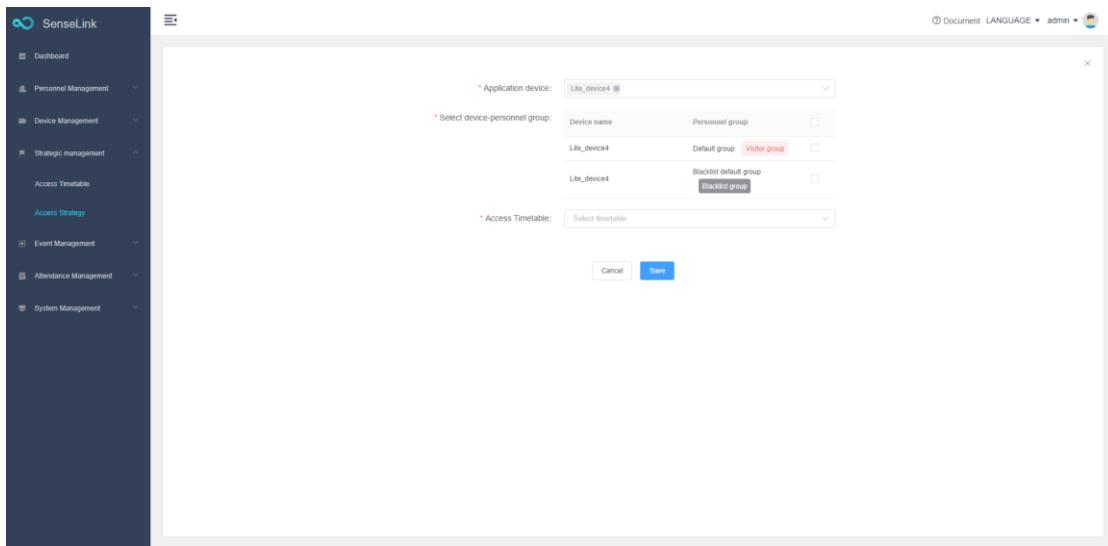


Figure 7.5 Add Access Strategy

8. Event management

8.1 Recognition Records

By default, Recognition Records display detailed identification records such as snapshot photos, directions of entry and exit, and time of all people in a certain period. You can filter by person identity (staff, visitor, stranger, etc.), time, device or name. Exporting records are also supported.

Total	598	Employee	502	Visitor	3	Blacklist	0	Stranger	5			
Personnel identity: <input type="button" value="All"/> <input type="button" value="Staff"/> <input type="button" value="Visitor"/> <input type="button" value="Blacklist"/> <input type="button" value="Stranger"/> <input type="button" value="Non-living"/> <input type="button" value="Other"/> Select verification <input type="button"/> Select misidentification <input type="button"/> Abnormal type <input type="button"/> Selected personnel group <input type="button"/> <input type="text"/> 2020-03-04 00:00:00 To 2020-03-04 23:59:59 <input type="button"/> Device Name <input type="button"/> Name <input type="button" value="Search"/> <input type="button" value="Export"/> <input type="button" value="Reset"/>												
Snap shot	Recognized photo	ID photo	Name	Identity	Verification method	Group	Direction	Device name	Abnormal type	Misidentification type	Time	Body Temperature
			9103010587	Staff	ID card	Default group	Null	ZHAOQQ			2020-03-04 20:36:27	36.6°C
				Staff	Face	Default group, Bilester	Null	ZHAOQQ			2020-03-04 20:27:33	36.4°C
				Staff	Face	Default group, Bilester	Null	ZHAOQQ			2020-03-04 20:27:13	36.4°C
				Staff	Face	Default group, Bilester	Null	ZHAOQQ			2020-03-04 20:25:46	36.3°C
				Staff	Face	Default group, Bilester	Null	ZHAOQQ			2020-03-04 20:23:11	36.3°C

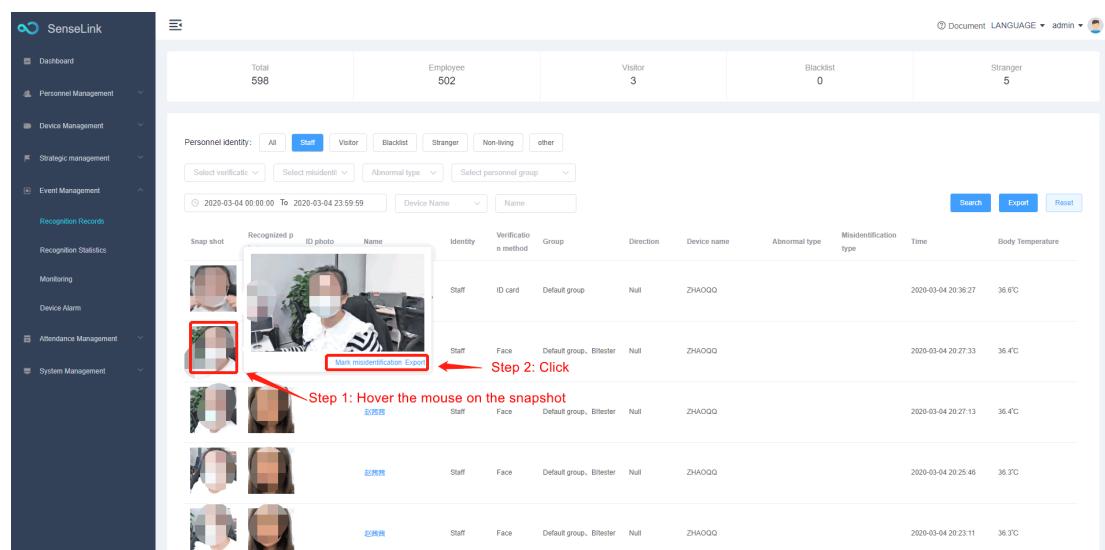
Figure 9.1 Recognition Records

8.2 Misrecognition Feedback

Like other biometric technologies, face recognition technology still has a certain chance of misunderstanding or rejection in practical applications. If there is a high probability of misunderstanding during usage, you can use the misidentification feedback to mark the records and export the misidentification data to the SenseTime researcher for analysis.

The operation path:

Recognition Records-Snap shot (you should put your mouse on the picture first)-Mark misidentification



Total	Employee	Visitor	Blacklist	Stranger
598	502	3	0	5

Personnel identity: All Staff Visitor Blacklist Stranger Non-living other
Select verifyface Select misidentify Abnormal type Select personnel group
2020-03-04 00:00:00 To 2020-03-04 23:59:59 Device Name Name
Search Export Reset

Snap shot Recognized p ID photo Name Identity Verification method Group Direction Device name Abnormal type Misidentification type Time Body Temperature

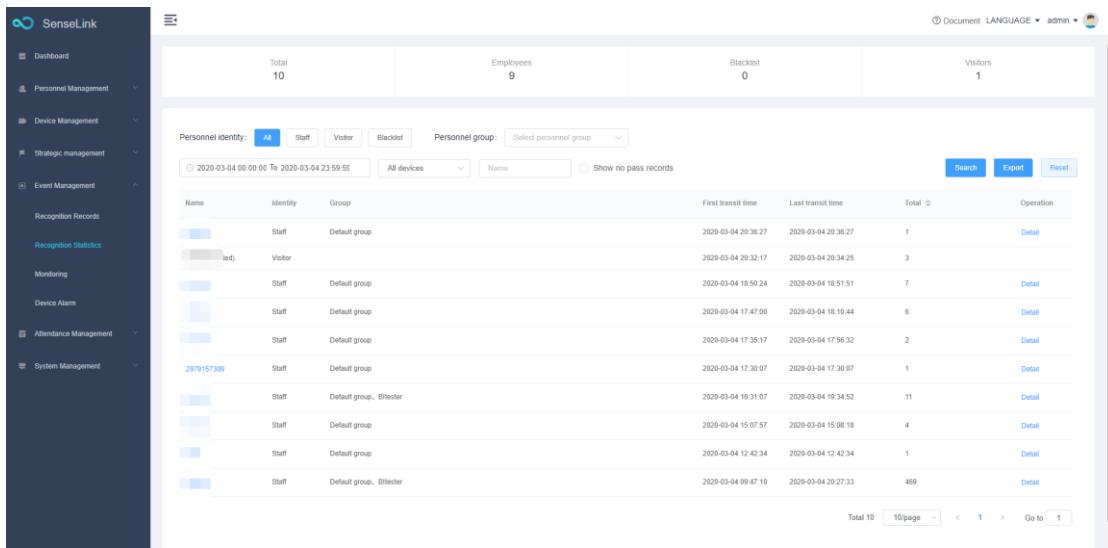
		Name	Staff	ID card	Default group	Null	ZHAOQQ	2020-03-04 20:36:27	36.8°C
Step 1: Hover the mouse on the snapshot	Step 2: Click		Staff	Face	Default group, Bilester	Null	ZHAOQQ	2020-03-04 20:27:33	36.4°C
		赵霞霞	Staff	Face	Default group, Bilester	Null	ZHAOQQ	2020-03-04 20:27:13	36.4°C
		赵霞霞	Staff	Face	Default group, Bilester	Null	ZHAOQQ	2020-03-04 20:25:46	36.3°C
		赵霞霞	Staff	Face	Default group, Bilester	Null	ZHAOQQ	2020-03-04 20:23:11	36.3°C

Figure 9.2 Misrecognition Feedback

For the misidentified records that have been marked, you can export the complete data collected by the device through the “Export” button and then feedback to the SenseTime Research Group through email (bi-service@sensetime.com).

8.3 Recognition Statistics

By default, the traffic statistics of all person in a certain period are displayed, and the first and last transit time and the number of the pass are included. You can filter by person identity (staff/visitor), time, device, or name. Support for exporting statistical records.



The screenshot shows the SenseLink Recognition Statistics page. On the left is a dark sidebar with navigation items like Dashboard, Personnel Management, Device Management, Strategic management, Event Management, Recognition Records, Recognition Statistics (which is selected), Monitoring, Device Alarm, Attendance Management, and System Management. The main content area has a header with 'Total 10' (Employees 9, Blacklist 0, Visitors 1). Below is a search/filter bar with 'Personnel identity' dropdown (set to All), date range (2020-03-04 00:00:00 To 2020-03-04 23:59:55), device selection (All devices), name search, and checkboxes for 'Show no pass records' and 'Show pass records'. A table lists 10 rows of transit records with columns: Name, Identity, Group, First transit time, Last transit time, Total, and Operation (Detail link). The table includes icons for each row. At the bottom are pagination controls: 'Total 10', '10/page', and 'Go to 1'.

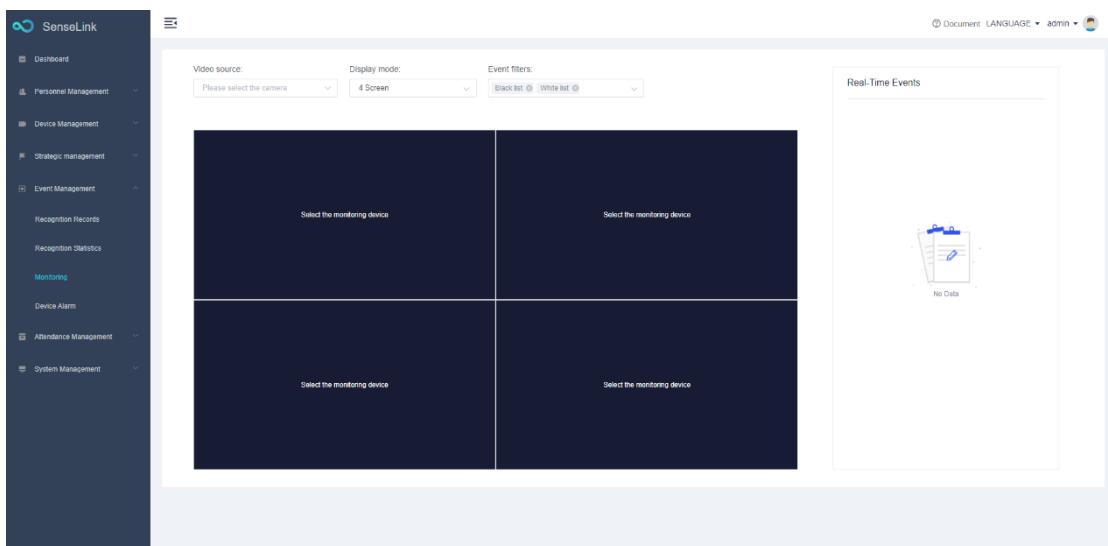
Figure 9.3 Recognition Statistics

Click on ‘Detail’ to view detailed records of the employee's snapshots, directions of entry and exit, time, etc.

8.4 Real-time Monitoring

Senselink support to monitor real-time video stream, and video-related snapshot events can be pushed and displayed in the list on the right in real-time.

Display model support: single screen and 4 split screen.

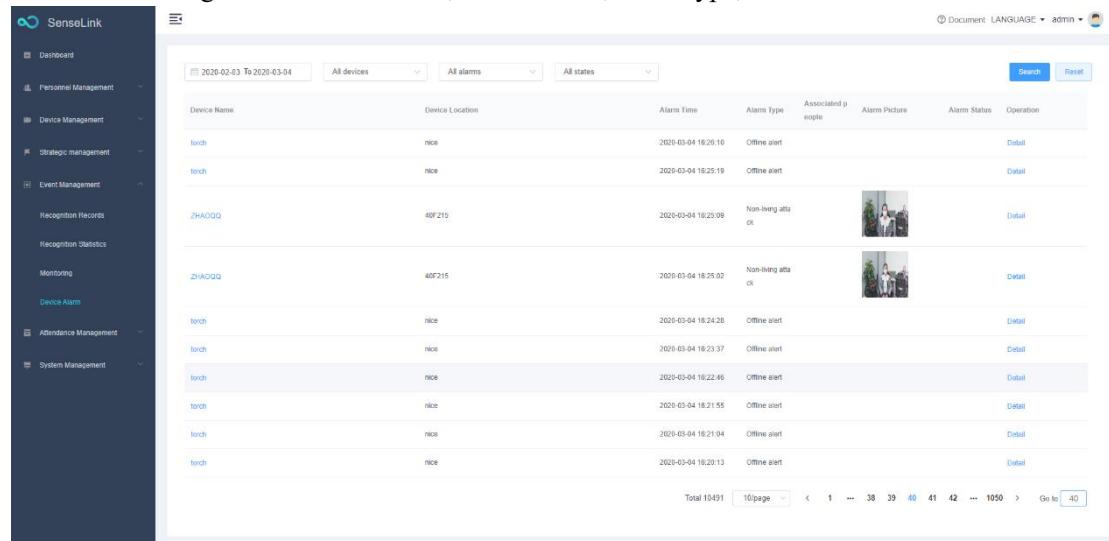


The screenshot shows the SenseLink Real-time Monitoring page. The left sidebar is identical to Figure 9.3. The main area has a header with 'Video source' (Please select the camera), 'Display mode' (4 Screen), and 'Event filters' (Black list, White list). Below is a 2x2 grid of video feeds labeled 'Select the monitoring device' in each quadrant. To the right is a panel titled 'Real-Time Events' with a small icon and the text 'No Data'.

Figure 9.4 Real-time Monitoring

8.5 Device Alarm

The device alarm module displays a record of all alarm events that occur on the device. Supports condition filtering based on alarm time, device name, alarm type, and alarm status.



Device Name	Device Location	Alarm Time	Alarm Type	Associated People	Alarm Picture	Alarm Status	Operation
lond	rice	2020-03-04 16:29:10	Offline alert			Detail	
lond	rice	2020-03-04 16:25:19	Offline alert			Detail	
ZHAOQI	40F215	2020-03-04 16:25:09	Non-living attack			Detail	
ZHAOQI	40F215	2020-03-04 16:25:07	Non-living attack			Detail	
lond	rice	2020-03-04 16:24:28	Offline alert			Detail	
lond	rice	2020-03-04 16:23:37	Offline alert			Detail	
lond	rice	2020-03-04 16:22:46	Offline alert			Detail	
lond	rice	2020-03-04 16:21:55	Offline alert			Detail	
lond	rice	2020-03-04 16:21:04	Offline alert			Detail	
lond	rice	2020-03-04 16:20:13	Offline alert			Detail	

Total 10491 | 10 page | < 1 --- 38 39 40 41 42 --- 1050 > Go to 40

Figure 9.5 Device Alarm

9. Attendance Management

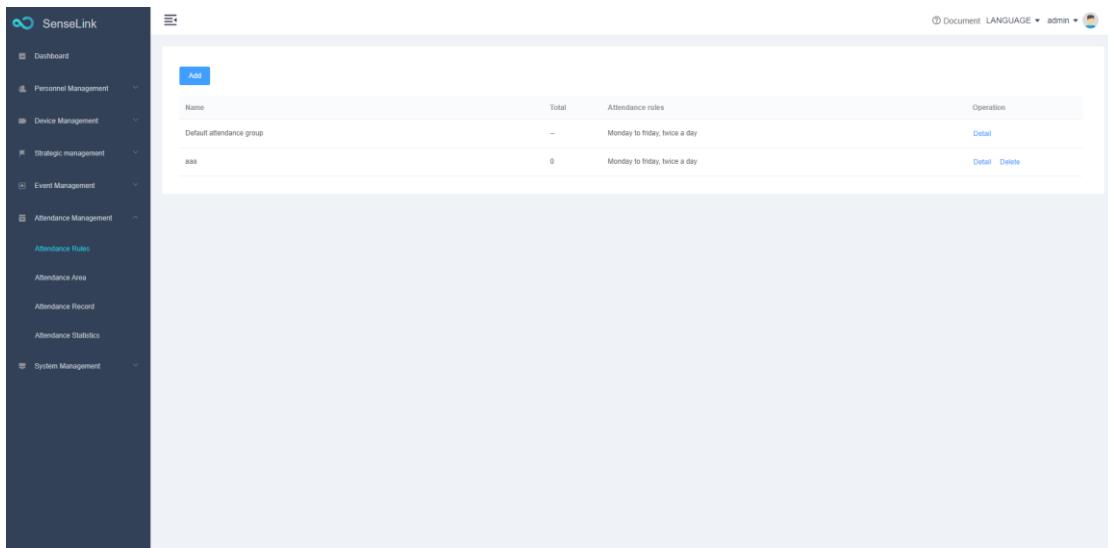
You can set different attendance rules for different employees. Employees who apply the same rule are called one attendance group, and one employee only belongs to one attendance group.

The default attendance group is automatically generated by the system and applies to all employees. The attendance group rules can be modified directly according to actual requirements. If you need to customize the attendance rules for some employees, you need to create a new attendance group.

9.1 Attendance Rules

New attendance rules can be set by adding an attendance group.

You can modify or delete existing attendance groups on this page.

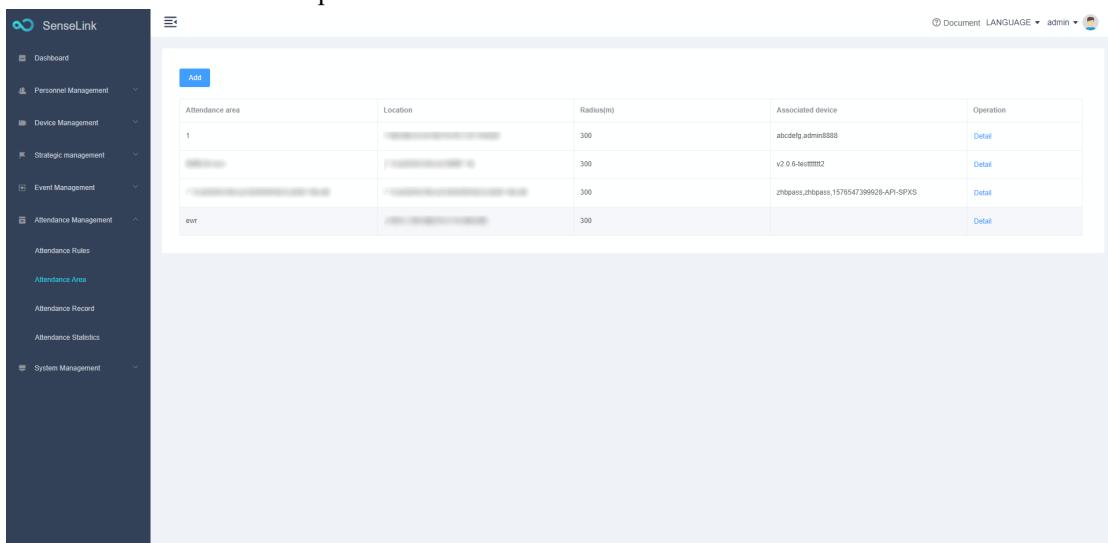


The screenshot shows the SenseLink web interface under the 'Attendance Management' section. On the left is a dark sidebar with navigation items: Dashboard, Personnel Management, Device Management, Strategic management, Event Management, Attendance Management (selected), Attendance Rules (selected), Attendance Area, Attendance Record, Attendance Statistics, and System Management. The main content area has a header with 'Add' and a table titled 'Attendance rules'. The table has columns: Name, Total, Attendance rules, and Operation. It lists two entries: 'Default attendance group' (Total 0, Monday to Friday, twice a day) and 'aa' (Total 0, Monday to Friday, twice a day). There are 'Detail' and 'Delete' buttons for each entry.

Figure 8.1 Attendance Rules

9.2 Attendance Area

You can set the attendance area for devices. The punch record of the device will use the attendance area name as the punch in & out area. If the device doesn't have an attendance area, the device location will be used as the punch in & out location.



The screenshot shows the SenseLink web interface under the 'Attendance Management' section. The sidebar is identical to Figure 8.1. The main content area has a header with 'Add' and a table titled 'Attendance area'. The table has columns: Attendance area, Location, Radius(m), Associated device, and Operation. It lists four entries: '1' (Location [redacted], Radius 300m, Associated device abcdefg.admin\$888, Detail), 'v2.0.6-testttt2' (Location [redacted], Radius 300m, Associated device v2.0.6-testttt2, Detail), 'zhttps://https.1576547399928-AP-SPX5' (Location [redacted], Radius 300m, Associated device zhttps://https.1576547399928-AP-SPX5, Detail), and 'eav' (Location [redacted], Radius 300m, Associated device eav, Detail).

Figure 8.2 Attendance Area List

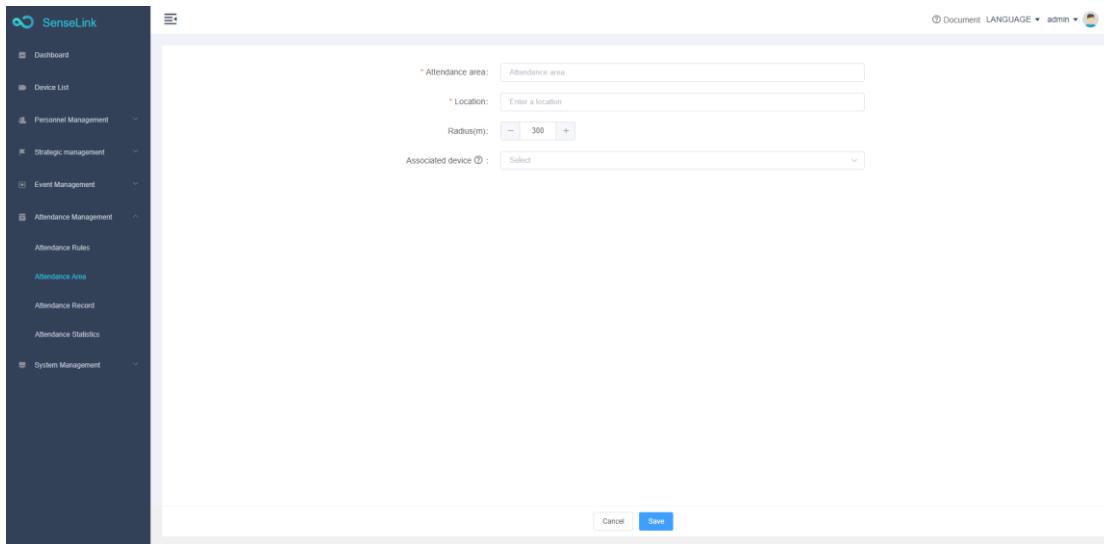
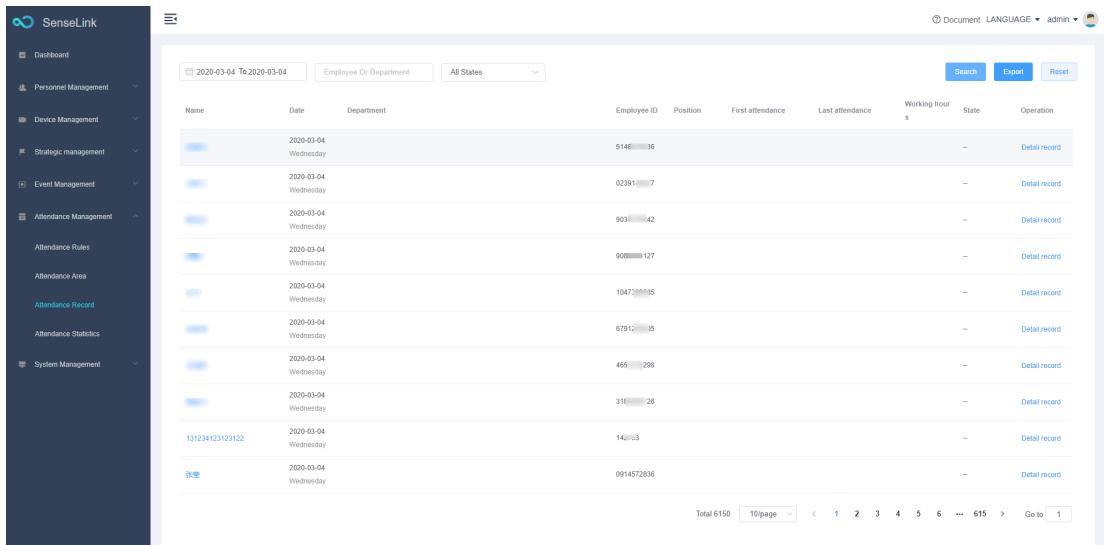


Figure 8.3 Attendance Area Edit

9.3 Attendance Records

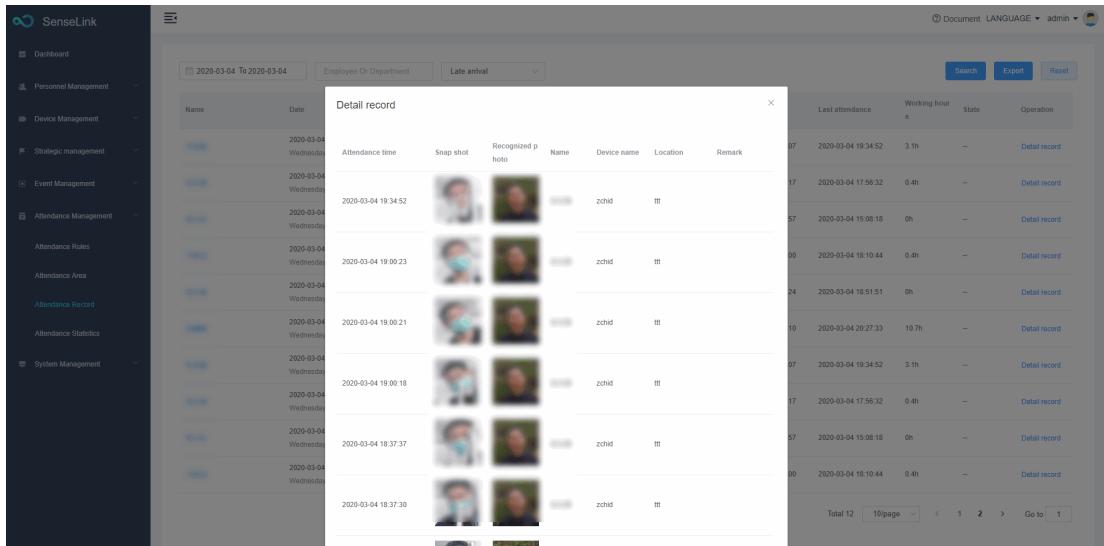
By default, the attendance information such as the first and last punch time, working hours and status of the employee in a certain period is displayed. You can filter and export records by time, name, department, or state.



Name	Date	Department	Employee ID	Position	First attendance	Last attendance	Working hours	State	Operation
	2020-03-04 Wednesday		5148136				--		Detail record
	2020-03-04 Wednesday		0239117				--		Detail record
	2020-03-04 Wednesday		903142				--		Detail record
	2020-03-04 Wednesday		9488127				--		Detail record
	2020-03-04 Wednesday		1047300035				--		Detail record
	2020-03-04 Wednesday		6791135				--		Detail record
	2020-03-04 Wednesday		4651298				--		Detail record
	2020-03-04 Wednesday		316126				--		Detail record
131234123123122	2020-03-04 Wednesday		1420103				--		Detail record
张雷	2020-03-04 Wednesday		0914572636				--		Detail record

Figure 8.4 Attendance Record

Click ‘Detail record’ to view the detailed punch record such as attendance time, snapshot, recognition photo, etc.



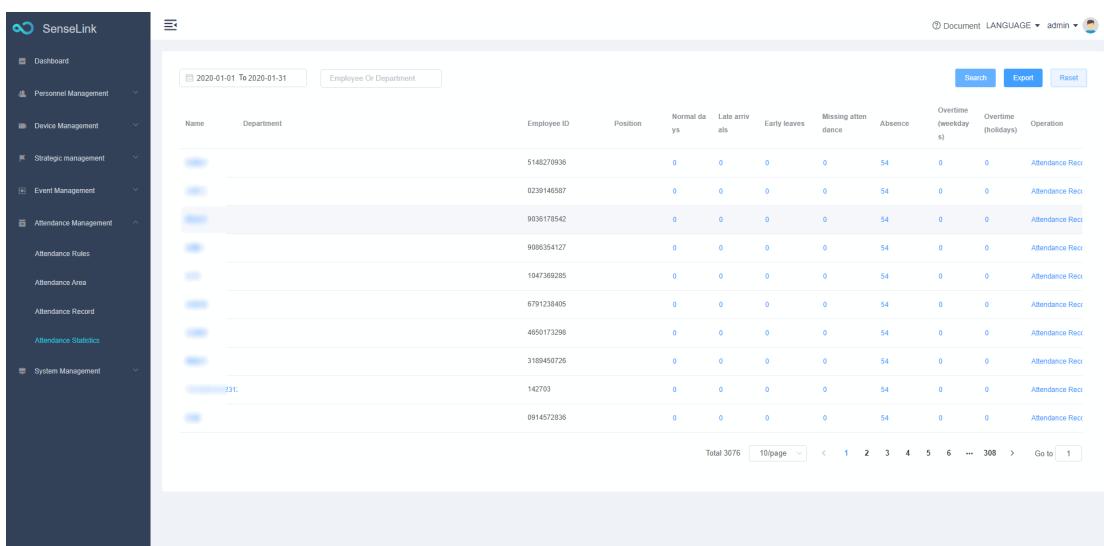
The screenshot shows the SenseLink Attendance Management system. On the left, a sidebar navigation includes: Dashboard, Personnel Management, Device Management, Strategic management, Event Management, Attendance Management (selected), Attendance Rules, Attendance Area, Attendance Record (selected), Attendance Statistics, and System Management. The main panel displays a table titled 'Detail record' for 'Employee Or Department' on 'Late arrival'. The table has columns: Name, Date, Attendance time, Snap shot, Recognized photo, Name, Device name, Location, Remark, Last attendance, Working hours, State, and Operation. The table lists 12 rows of data from March 4, 2020, with each row showing an employee's name, date, attendance time, photo, device information, and a detailed log of their attendance records.

Figure 8.5 Attendance Detail Record

9.4 Attendance Statistics

Attendance Statistics include normal days, number of late arrivals, and number of early leaves and so on during a certain period. You can filter by period, name, or department. The record can be exported.

Click ‘Attendance Record’ to view the detailed information of the employee within the specified period. You can filter the records according to the state. Click ‘Attendance Statistics’ to view the information about the normal attendance days, the number of late arrivals, etc. during the specified period.



The screenshot shows the SenseLink Attendance Management system. The sidebar navigation is identical to Figure 8.5. The main panel displays a table titled 'Employee Or Department' for the period '2020-01-01 To 2020-01-31'. The table has columns: Name, Department, Employee ID, Position, Normal days, Late arrivals, Early leaves, Missing attendance, Absence, Overtime (weekday s), Overtime (holidays), and Operation. The table lists 3076 rows of data, showing various employees and their attendance statistics for the month of January.

Figure 8.6 Attendance Statistics

10. Upgrade Management

This function can be used on following devices and the minimum software version is illustrated in the brackets: SensePass(v1.0.0), SensePass Pro(v1.0.0), SenseKeeper(v3.0.0), SenseGate-B(v1.0.0).

Please refer to <SenseLink ToolKit User Manual> for more information.

11. Enterprise Management

11.1 Enterprise Information

Here you can customize the company's logo, background map, and other information.

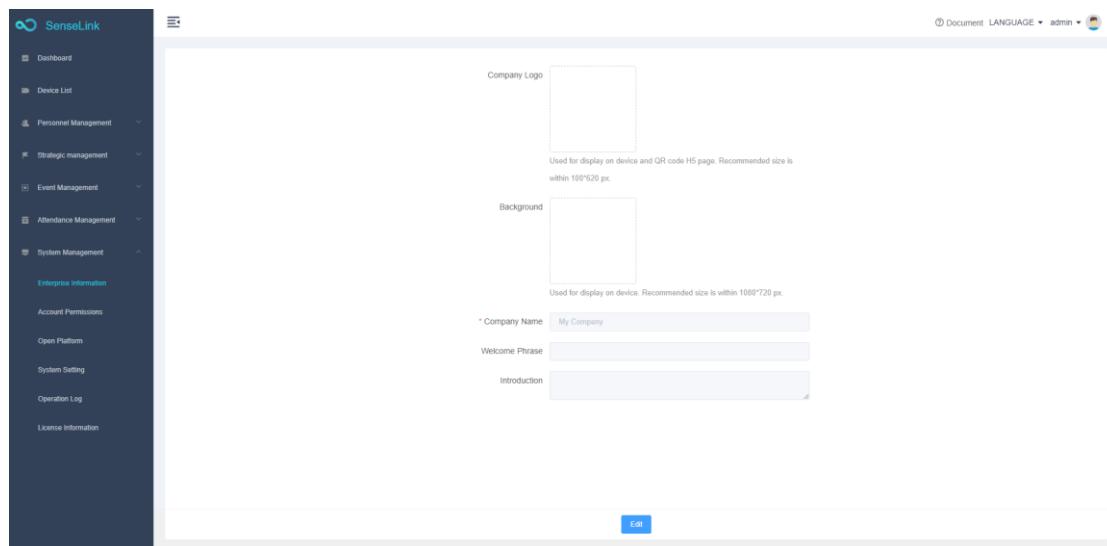


Figure 11.1 Enterprise Information

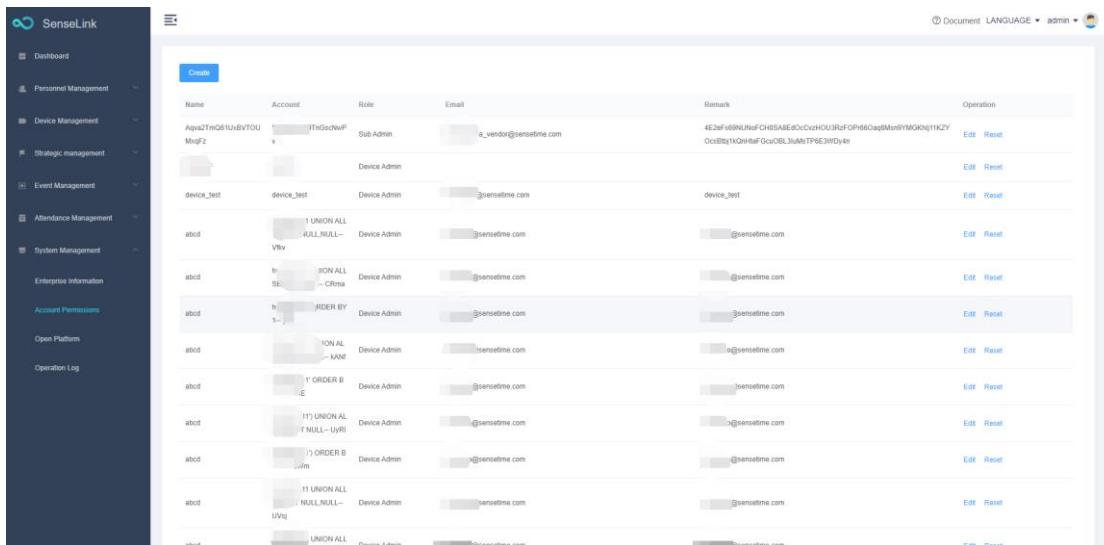
11.2 Account Permission

You can modify the password of the current account, edit and reset the password for the existing account. While creating accounts or resetting the password as a super administrator, you can set the password by generate random password sent by mail or the default password(Admin1234@).

The details of the account permissions are as follows:

- The super administrator account is unique, who can create lower level administrator accounts.
- The sub administrators cannot manage account rights and apply for Open Platform. The remaining permissions as same as the super administrator;
- The general administrators cannot perform the addition, deletion, and modification of person information, attendance rules, and enterprise information. The remaining permissions are consistent with the sub administrators.
- The device administrators can only access and operate device management.
- The visitor administrators can only access and operate visitor management.

* Note: Before creating an account, please make sure that the mailbox configuration has been completed. For details, see [Configuring the Mailbox Service](#).



Name	Account	Role	Email	Remark	Operations
Aqua2TmQ51UxBvTOU	J1nGzNvP	Sub-Admin	a_vendor@sensetime.com	4E2ef1d9NUndCHtSA8Ed0xCvHOU3RfFOP66OaqgMzn9YMQK9j11K2Y OcBlt1K9HtaFGcaOB3uMTP63Wdy4n	Edit Reset
ModF2		Device Admin			Edit Reset
device_test	device_test	Device Admin	@sensetime.com	device_test	Edit Reset
abcd	1 UNION ALL VbV	Device Admin	@sensetime.com		Edit Reset
abcd	h UNION ALL SE	Device Admin	@sensetime.com		Edit Reset
abcd	h ORDER BY 1 -	Device Admin	@sensetime.com		Edit Reset
abcd	KON AL --_I4NF	Device Admin	@sensetime.com		Edit Reset
abcd	1 ORDER B --_E	Device Admin	@sensetime.com		Edit Reset
abcd	11 UNION AL T NULL_-U#l	Device Admin	@sensetime.com		Edit Reset
abcd	1 ORDER B --_com	Device Admin	@sensetime.com		Edit Reset
abcd	11 UNION ALL UVj	Device Admin	@sensetime.com		Edit Reset
abcd	UNION ALL	Device Admin	@sensetime.com		Edit Reset

Figure 11.2 Account Permission

11.3 Open Platform

The SenseLink Enterprise open platform is an open service platform based on the SenseLink Enterprise AIoT Platform. After accessing SenseLink Enterprise, third-party systems can acquire interfaces such as devices, person, records. Third-party systems can quickly integrate SenseLink Enterprise face recognition capabilities and multi-scene services.

*Note: Open API does not restrict domain name or IP access in the Enterprise version. Any request to access the IP of this machine is considered legal.

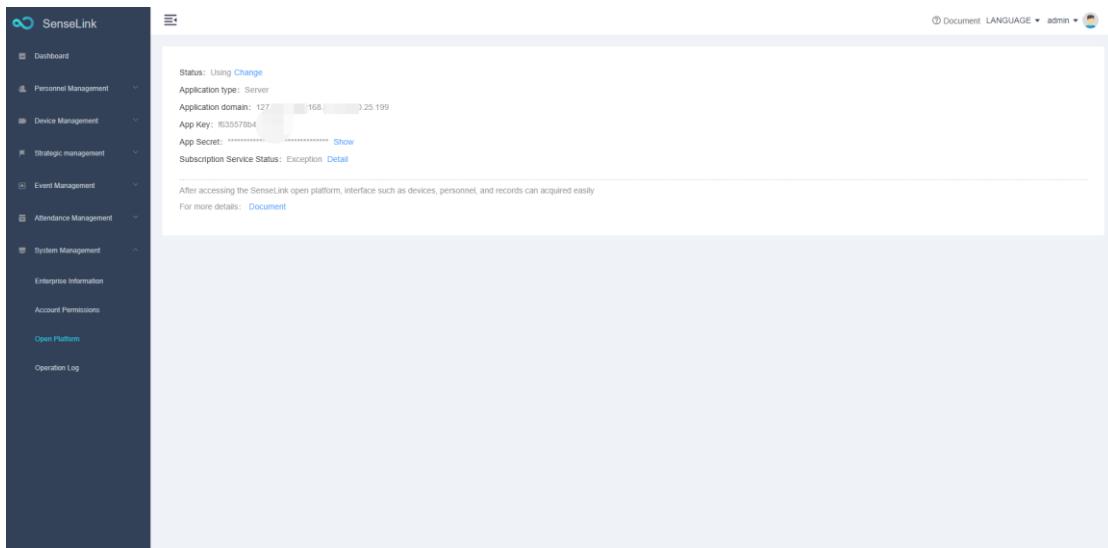


Figure 11.3 Open Platform

Click “Reset”. You can reset the current App Key and App secret. All API related projects using old App Key and App Secret can not work anymore.

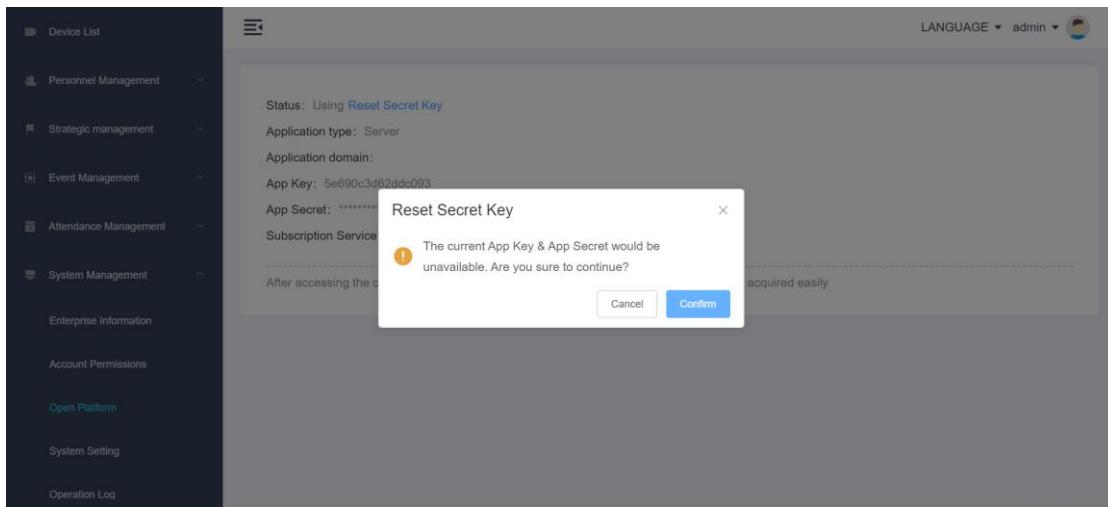


Figure 11.4 Open Platform-Reset App Key& App Secret

Please refer to <SenseLink Enterprise API Operation Manual> for more information.

11.4 System Setting

11.4.1 Storage Settings

You can check the currently used storage and total storage here.

You can also set automatically clear records of expiration periods and view clear logs. The records include recognition records, recognition statistics, attendance records, attendance statistics, device alarms, and operation logs. While enabled, the system will clear expired records every 0:00. The default expiration period is 12 months and can be configured. Note: While the remained storage is less than 20G, in order to make sure storage for new records, photos of unexpired records will be deleted.

* It is only available for SenseLink Enterprise and not for SenseLink Enterprise Pro.

11.4.2 Face Settings

You can also adjust your system's Face quality detection level here:

Low: Simply detect if there is only one face in the photo, applies to all face registration channels.

High(recommended): Multi-factors such as image size, effective face size, angle, brightness, blurriness, mouth-openness, occlusion are taken into consideration, only applies to web-side face registration.

11.4.3 Email Configuration Server

This mailbox service is used to send system notifications (such as sending an initial login password to another mailbox when creating a sub-administrator).

After the configuration, you can verify that the mailbox through the ‘Send Test Mail’ button.

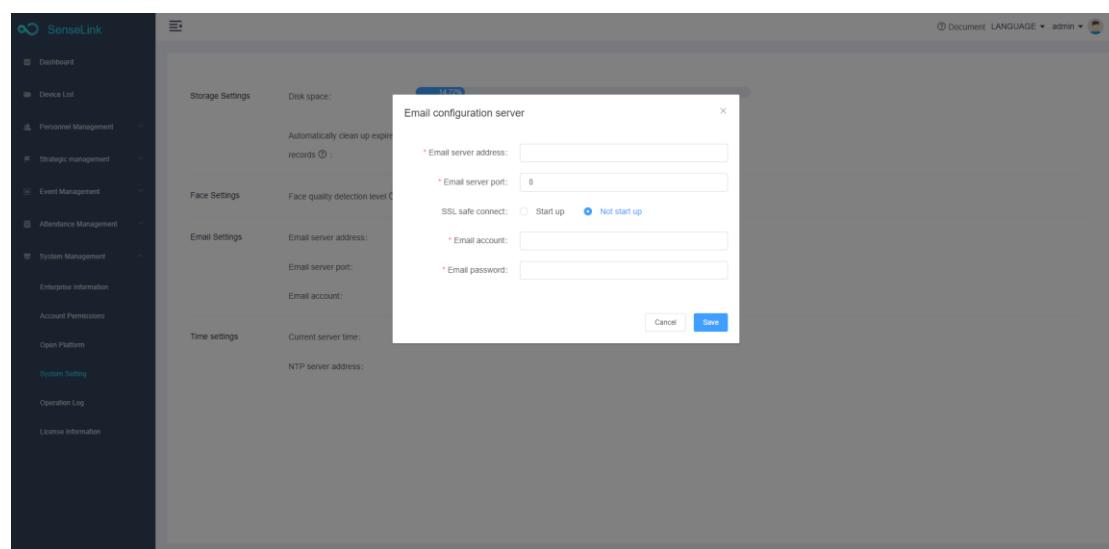


Figure 11.5 Email Configuration Server

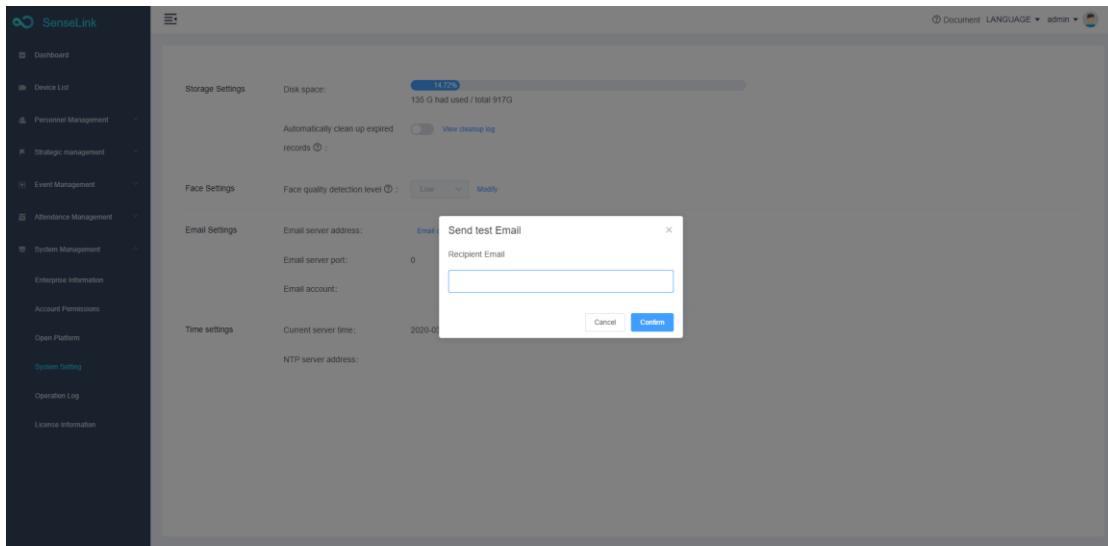


Figure 11.6 Send test email

11.4.4 Time Calibration

This feature is used to calibrate the system time of your SenseLink Enterprise Server host and all devices.

There are two ways to calibrate the time: NTP service timing calibration and manual calibration.

- NTP service time calibration (recommended): fill in the address of the NTP server that the host can access;
- Manual calibration: Enter in the date and time in the format of ‘YYYY-MM-DD HH:MM: SS’.

Note: If the device's time does not match the server time, all devices requests will be rejected. In this case, you need to calibrate the device time or modify the service host system time again through the calibration.

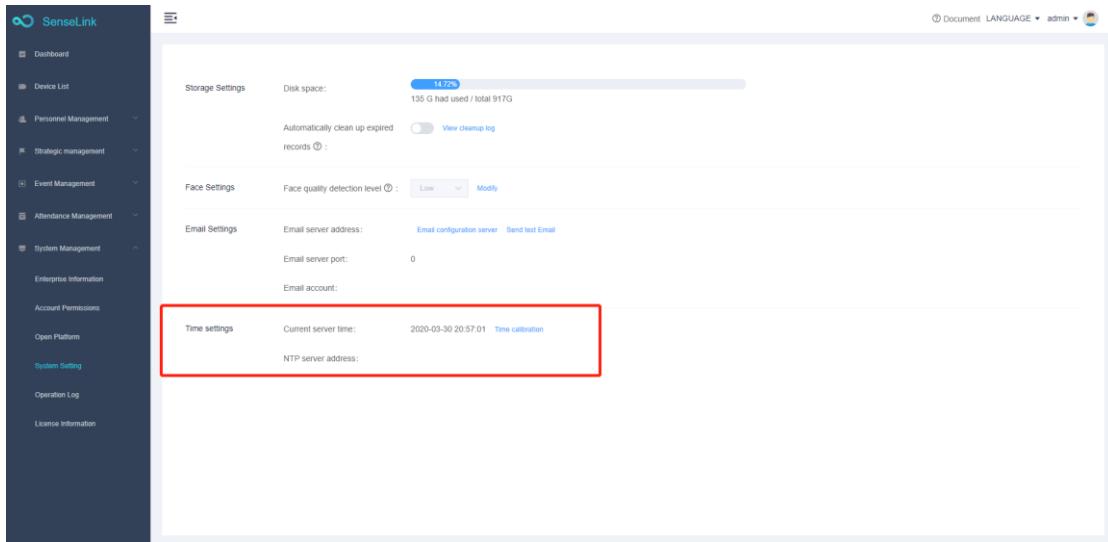


Figure 11.7 NTP Server Timing Calibration

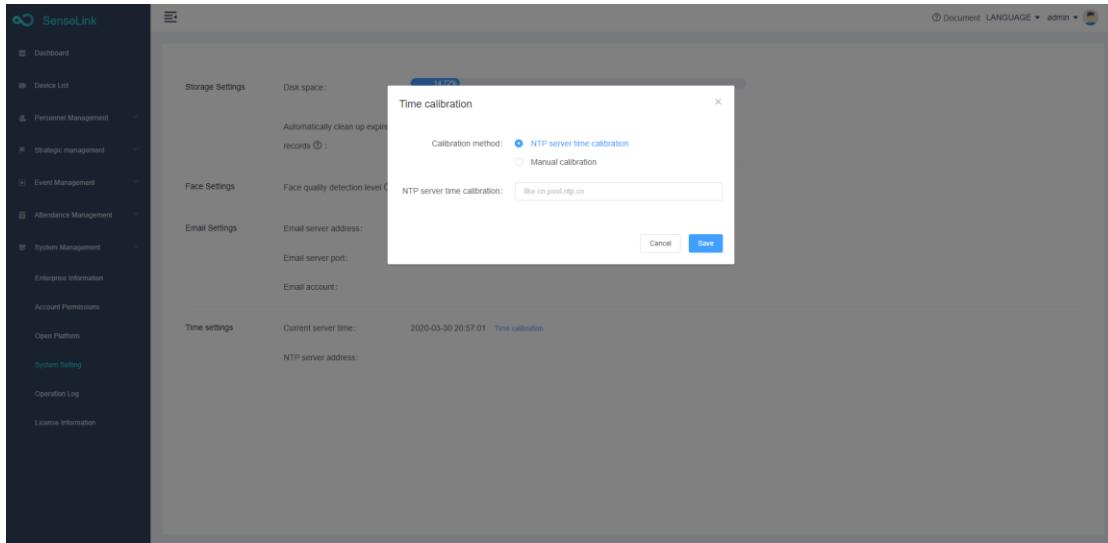


Figure 11.8 Manual Calibration

11.5 Operation Log

In Operation Log, you can view the operating history. The history information includes operator, account, role, operation modular, operation item, event, IP, result and time. Click ‘Export’ to export the EXCEL file.

Name	Account	Role	Operation Modular	Operation Item	Operation Event	IP	Operation Result	Operation Time	Operation Remarks	Detail
admin	admin1234	Super Admin	Device	Device	UpdateDevice: ZHAOQQ	10.9.40.71	Success	2020-03-02 20:31:19		
admin	admin1234	Super Admin	Login	Device	deviceLogin: ZHAOQQ	10.9.40.71	Success	2020-03-02 20:31:10		
admin	admin1234	Super Admin	Device	Device	UpdateDevice: ZHAOQQ	10.9.40.71	Success	2020-03-02 20:30:03		
admin	admin1234	Super Admin	Login	Device	deviceLogin: ZHAOQQ	10.9.40.71	Success	2020-03-02 20:30:01		
admin	admin1234	Super Admin	Device	Device	UpdateDevice: woyingin	10.9.40.116	Success	2020-03-02 20:16:13		
admin	admin1234	Super Admin	Device	Device	UpdateDevice: ZHAOQQ	10.9.40.71	Success	2020-03-02 19:01:52		
admin	admin1234	Super Admin	Login	Device	deviceLogin: ZHAOQQ	10.9.40.71	Success	2020-03-02 19:01:16		
admin	admin1234	Super Admin	Login	Device	deviceLogin	10.9.96.138	Failure	2020-03-02 18:52:25		
admin	admin1234	Super Admin	Device	Device	UpdateDevice: TBtest	10.9.96.138	Success	2020-03-02 18:31:36		
admin	admin1234	Super Admin	Device	Device	UpdateDevice: TBtest	10.9.96.138	Success	2020-03-02 18:31:32		

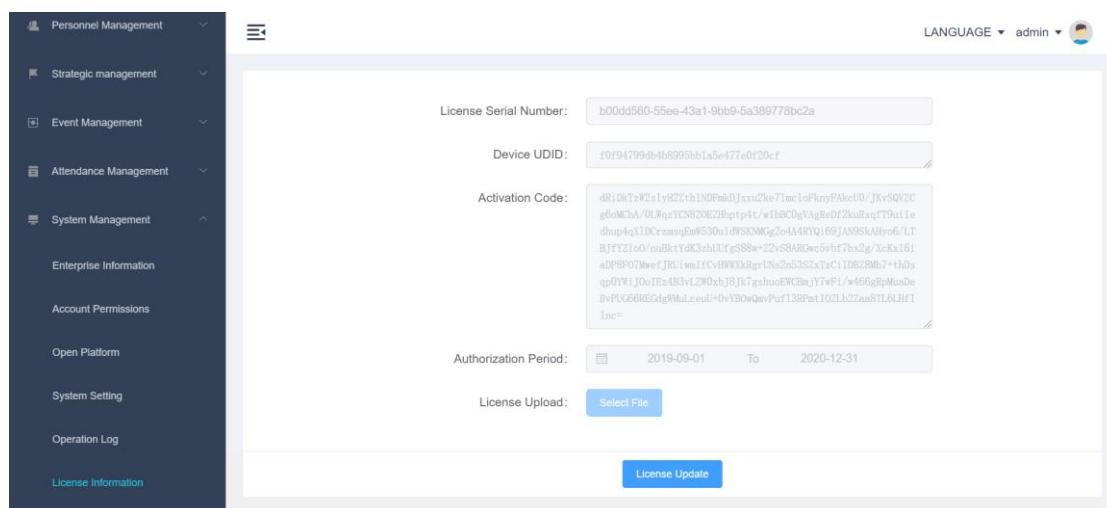
Figure 11.9 Operation Log

11.6 License Information

You can view license SN, device UDID, and authorization period here.

“License Update” can update the license and activation code, even though it is still authorization period. Note: updating license needs couples of minutes. If failed, you will see active page and you need to enter license information again.

* Updating license is only available for SenseLink Enterprise and not for SenseLink Enterprise Pro.



The screenshot shows the SenseLink Enterprise software interface. On the left, there is a sidebar with the following navigation options:

- Personnel Management
- Strategic management
- Event Management
- Attendance Management
- System Management
- Enterprise Information
- Account Permissions
- Open Platform
- System Setting
- Operation Log
- License Information

The main content area displays the following fields:

- License Serial Number: b00dd560-55ee-43a1-9bb9-5a389778bc2a
- Device UDID: f0f94799d4b8995bb1a5e477e0f20cfc
- Activation Code: A long string of characters: dR1DkTzW2s1yH22t1h1NDFmk0Jxxu2ke71nc1oPknvFAkcl0/JJxvSQVZCg6oMChA/0LWqTCNS2z0EZBtp4t/w1h6CoVAgw0f72kufoxT79u11edhup4qX1DCrzmqphw530u1dWS8NMGc2oMAmRYQ)69JAN9SkAlh6/1TBjTY21oO/suBkYdK3zhUfUSS8w+Z3vsSAMGe5vbft7xa2g/Xdcx161aDPf907MewfJBt1wn1FcHWXXXBg+UNc0n53S2xTsC1DB028Mb7+thbsq0YV1jOaIEs4B3V1Z70oxhj0J7gshn2EWChmjt7wF1/w460gqjMaDeBvPU6698REGdgWdLceuU+OvYB0wQevnPuf138Pmt102Lb27aa8TL6JHF1nc=
- Authorization Period: From 2019-09-01 To 2020-12-31
- License Upload: Select File
- License Update: A blue button at the bottom right.

Figure 11.10 License Information



SenseTime
on Wechat



SenseTime
on Weibo

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(Weekdays 9:30 AM– 18:00PM)
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