



# **HikCentral Professional V1.6.0**

**What's New**

## **User Manual**

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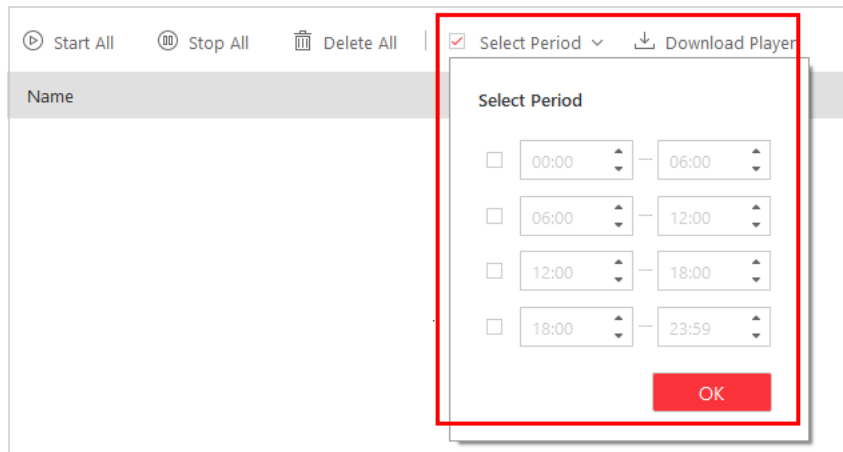
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## Chapter 1 Added Features

### 1.1 Video

1. The Control Client supports saving selected recorded files in the IPSAN disk to save local PC's memory.
2. Supports switching streams with fisheye expansion enabled during live view.
3. Supports pausing and slowing down during playback of recorded video footage that collected by ISUP devices.
4. The Control Client supports setting four time periods for downloading files automatically during off-peak time periods.



5. Supports saving recorded files collected by devices that added by domain name in pStor.
6. Supports playing alarm related videos by selecting devices or Control Client's time.
7. Supports synchronizing the time zone of the system and Day Light Saving Time to the Cloud Storage Server.
8. The system supports synchronizing NTP (Network Time Protocol) settings of the system to pStor and the Cloud Storage Server regularly.
9. The Web Client supports searching online ONVIF devices so that you can add ONVIF devices to the system in a batch.
10. The channels of a network camera or dome camera will be counted as the same channel of the License.
11. Newly added pStor Cluster Service as Recording Server and supports forming an N+1 hot spare system for pStor to save deployment costs.

Encoding Device  
Access Control Device  
Elevator Control Device  
Video Intercom Device  
Security Control Device  
Dock Station  
Display Screen  
**Recording Server**  
Streaming Server  
DeepinMind Server  
Security Audit Server  
Smart Wall

## ← Add Recording Server

Server Type

☐ pStor  
☐ Hybrid Storage Area Network  
☐ Network Video Recorder  
☐ Cloud Storage Server  
☒ pStor Cluster Service

Basic Information

\* Address

\* Network Port

\* Signaling Gateway Port

\* Access Key

\* Secret Key

## 1.2 Event and Alarm

1. The Control Client supports displaying the latest alarms and alarms with higher priority in priority. When the pop-up window remains open, the later alarm, if alarm priority is higher, will be displayed in the pop-up window, replacing the earlier one.
2. The stranger will be marked in the captured picture when Face Mismatched Event is triggered
3. Added Hot Spare Switch as a system-monitored event, which will be triggered when the system hot spare is switched because of server bugs.

## ← Add System-Monitored Event

Basic Information

\* Triggered by Source Type

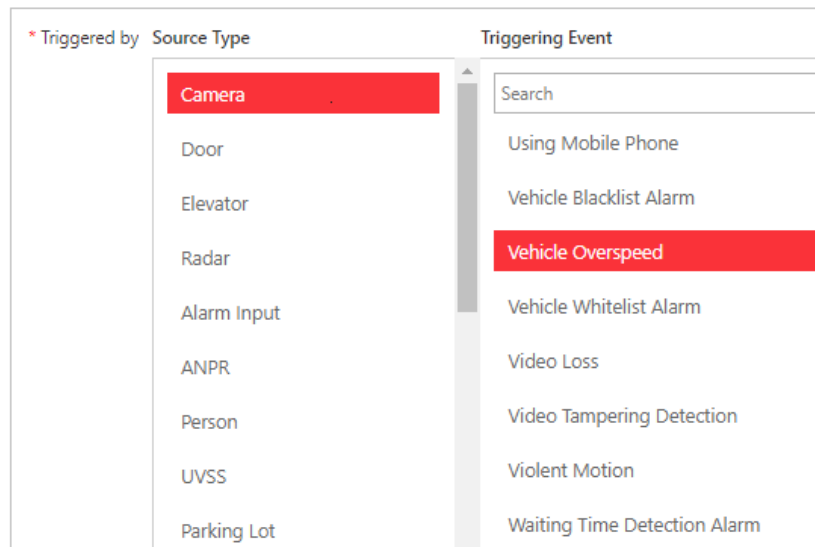
Decoding Device  
Resource Group  
Recording Server  
Streaming Server  
DeepinMind Server  
Security Audit Server  
**HikCentral Professional Server**  
User  
User-Defined Event

Triggering Event

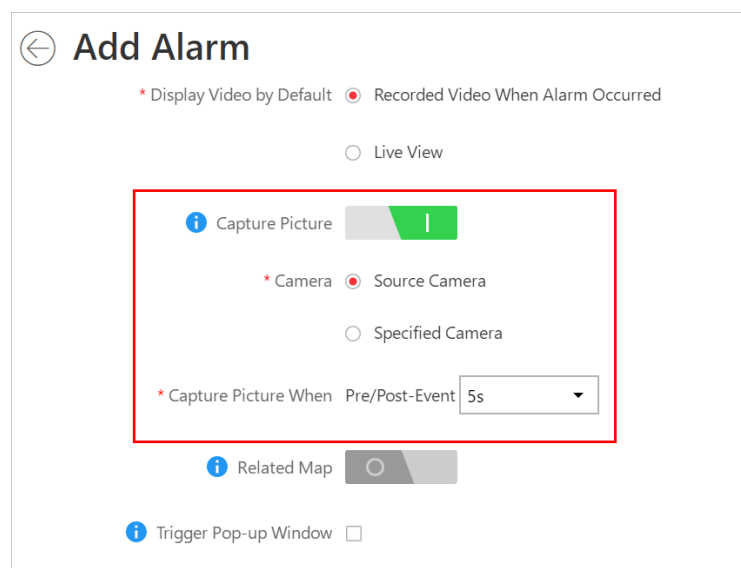
Search

CPU Exception  
CPU Recovered  
CPU Warning  
**Hot Spare Switch**  
RAM Exception  
RAM Recovered  
RAM Warning  
System Service Abnormally Stopped  
System Service Recovered to Run

- Added Vehicle Overspeed as a new alarm that will be triggered when a vehicle's speed exceeds the configured threshold and you can search the alarm information in the Alarm Center module.



- Supports configuring picture-capturing as the linkage action of an alarm, so that you can see the captured picture shown in the alarm pop-up window once an alarm is triggered.



- Added the function that turning off specified alarm output(s) before acknowledging an alarm in the Alarm Information window of the Control Client.
- Added Person Amount More/Less than Threshold (Pre-Alarm) alarm which will be triggered when people amount in the detection area is getting close to the configured threshold. The people amount range will be shown on the Alarm Information window of the Control Client.

\* Triggered by Source Type

Triggering Event

Search

Person Amount More/Less than Threshold

Person Amount More/Less than Threshold (Pre-Alarm)

Source Type

Elevator Control Device

Security Control Device

Dock Station

Decoding Device

Resource Group

Recording Server

Streaming Server

DeepinMind Server

Security Audit Server

HikCentral Professional Server

User

Threshold

Add

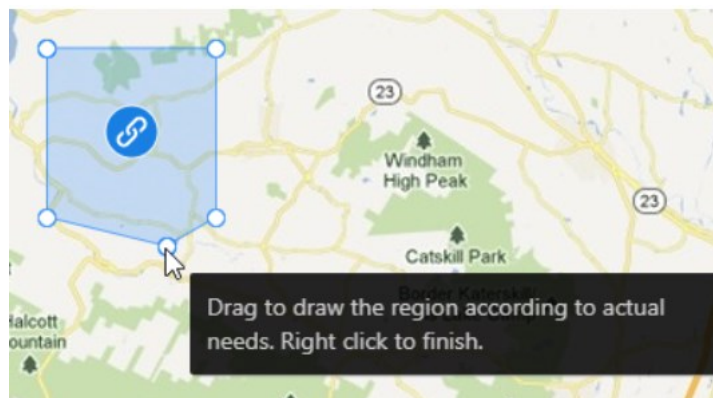
Add and Continue

Cancel

- Fire Source Detection alarm supports detecting smoke generated by cigarettes. The Fire Source Detection alarm will be triggered once the camera detects someone smoking.

## 1.3 Map

The Web Client supports drawing and editing an area for a hot region on the map.



## 1.4 Person

- Supports Enrollment Station for the following functions:
  - Enroll a face profile to a person
  - Enroll a fingerprint to a person
  - Issue a card to a person
  - Issue cards to persons in a batch
  - Importing persons from device
  - Copy back person and credential information



Import Export Synchronize Domain Persons Cancel Card Loss

Device Type: Enrollment Station

There are two stages for data importing via Enroll...

\* Device Address

\* Device Port

\* User Name

\* Password

Stage: ☒ Apply Person Information ☐ Copy Back Person and Credential Information ⓘ

Import from: ☒ Template ☐ Person List

The number of cards in the template should be sa...

\* Select File

Download Template

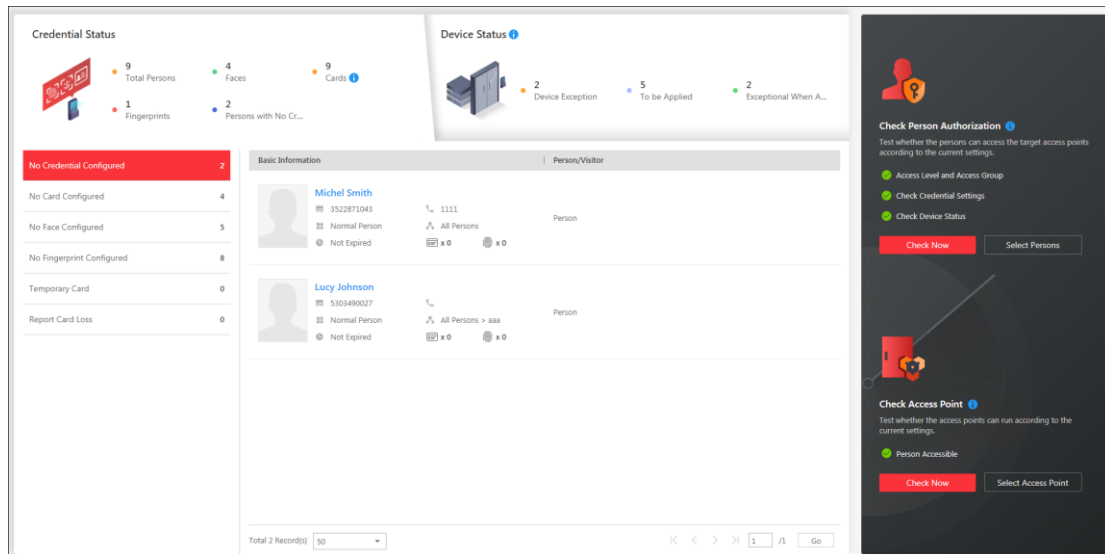
Import

2. Supports exporting failed information when importing person profiles to the system.

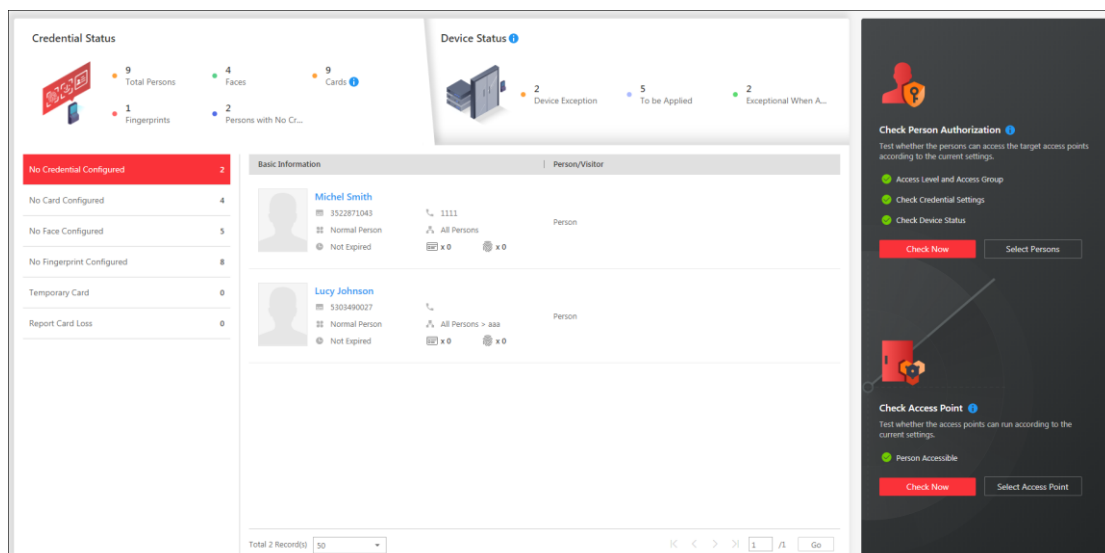
## 1.5 Access Control

1. Added Access Control Test module on the Web Client: Test whether the configurations about access control are set correctly and completely and whether the devices are running properly.
  - View the status of the credentials
    - ✓ Persons with no credential configured
    - ✓ Persons with no card configured
    - ✓ Persons with no fingerprint configured
    - ✓ Persons with temporary card
    - ✓ Persons with card reported as lost
  - View the status of the access control devices and elevator control devices
    - ✓ Device name
    - ✓ Network status
    - ✓ Arming status
    - ✓ Device time
    - ✓ Persons on device and credentials on device
    - ✓ Persons in system and credentials in system
    - ✓ Persons applying to device failed and credentials applying to device failed
    - ✓ Persons to be applied to device
  - Test whether the persons can access the target access points according to the current settings

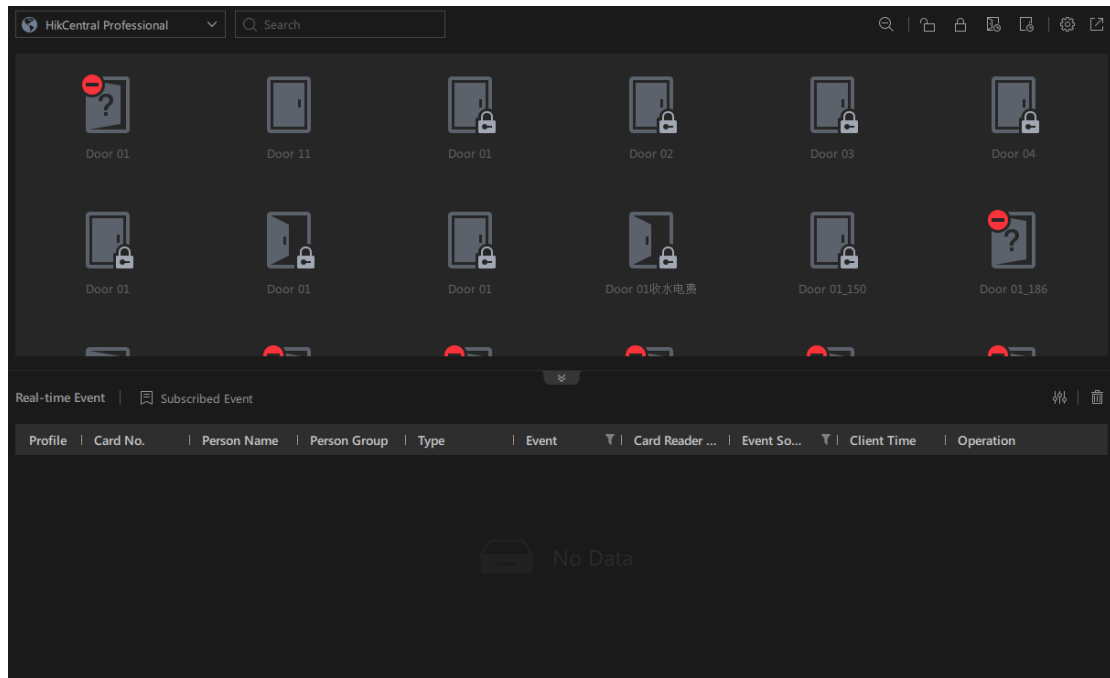
- ✓ Authorization settings of persons/visitors applying to device failed
- ✓ Authorization settings of persons/visitors applying to device succeeded
- ✓ Authorization settings of persons/visitors to be applied to device
- Test whether the access points can run according to the current settings.



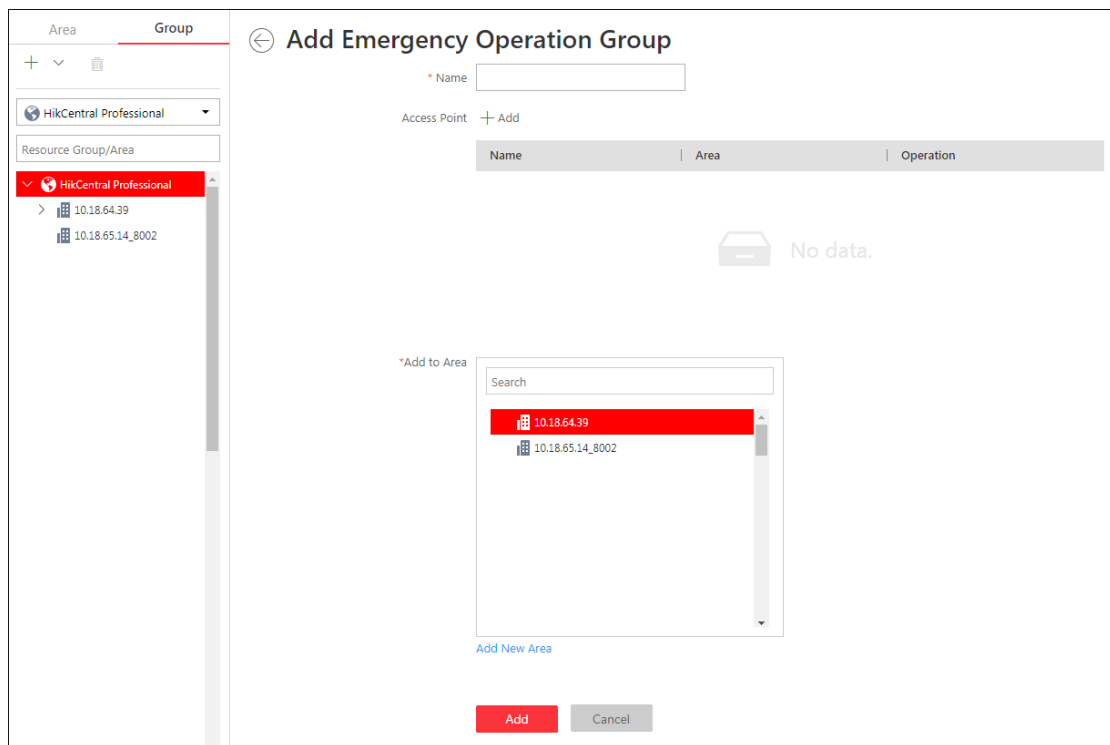
2. Added a quick start guide on the Web Client for access control to go through the configurations of access control.
  - Add an access control device
  - Add a door to area
  - Add an access level
  - Add a person
  - Access control application
  - Access control test



3. Added Door and Elevator module on the Control Client to control the status of all the access points or part of the access points in specified emergency operation group.



- Supports setting emergency operation group which is a group for access points and they need to be operated (remaining locked/unlocked) in a batch.



- Supports setting facial recognition parameters of card readers pf ISUP devices.
- Supports applying face credentials to ISUP devices, getting face credentials from ISUP devices, and collecting faces by ISUP devices.
- Supports searching device logs of access control devices on the Control Client.

### Device Logs

**Type**

☐ Online/Offline Log ☒ Log on Device

Access Control Device

**Device**

Search

- 10.18.65.192
- 10.18.65.222
- 10.18.65.224

**Type**

Search

- > ☐ Alarm
- > ☐ Exception
- > ☐ Operation
- > ☐ Event

**Time**

Today

Search

- Supports dumping access records to third-party database and supports setting saving path, frequency, and other parameters.

**Data Interchange**

**Data Synchronization**

Resource for Card Swiping + Add Delete All

Name	Resource Type	Belong to Area	Operation
No data.			

Total 0 Record(s) 50 < < > > 1 /1 Go

Type ☐ Database Synchronization ☒ Access Record Dump

\* File Name AcsRecord\_Report

① Dump file format is CSV.

\* Saving Path C:\Program Files (x86)\HikCentral\VSM ...

\* Content

\$(Person ID),\$(First Name),\$(Last Name),\$(Person Group),\$(Access Time),\$(Access Date),\$(Attendance Status),\$(Device Name),\$(Device Serial No.)

Click following items to add content for display.

Person ID	First Name	Last Name
Person Group	Access Time	Access Date

Save

- Supports MySQL database.

## Data Interchange

*Data Synchronization*

Resource for Card Swiping

+ Add

Delete All

Name	Resource Type	Belong to Area	Operation
<div>No data.</div>			

Total 0 Record(s)

50

< < > >|

1

/1

Go

Type

☒ Database Synchronization
☐ Access Record Dump

\* Database Type

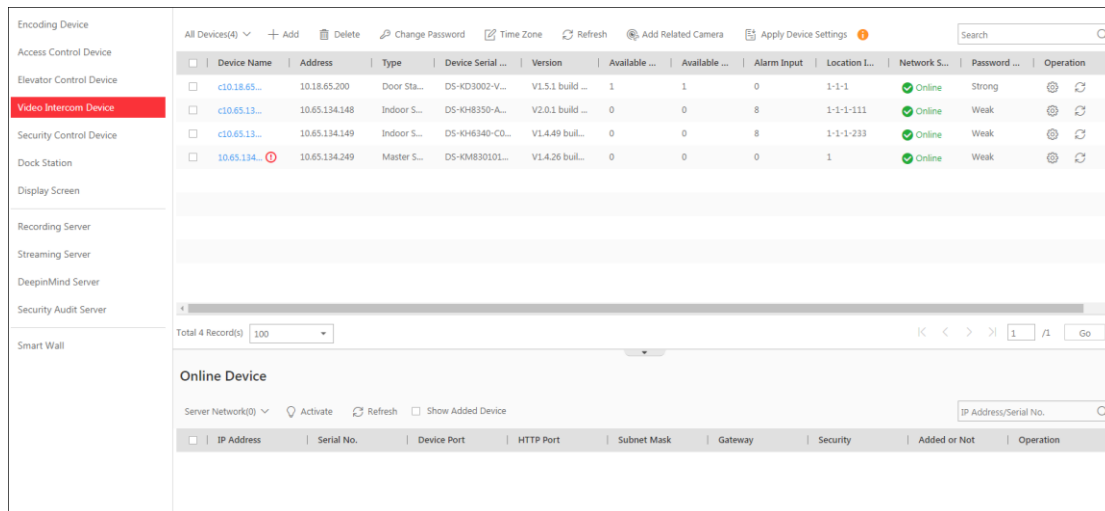
MySQL

Please download the libmysql.dll file of MySQL (V8.0 and above, 64-bit) and copy it to the installation directory of the System Management Service (SYS), and then restart it. You can also contact our technical support for help.

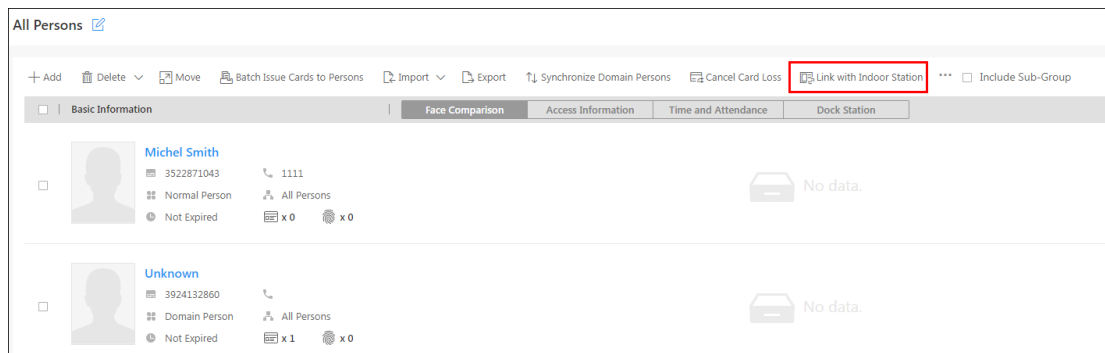
10. Supports transmission of different encoding formats during third-party database synchronization.
11. Supports receiving facial recognition event of recognized/unrecognized faces, marking matched and unmatched faces by different marks, and detecting the faces' locations.

## 1.6 Video Intercom

1. Added video intercom functions
  - Video intercom device management on the Web Client, including indoor station, door station, outer door station, and master station
    - ✓ Create password for inactive video intercom device(s)
    - ✓ Three adding modes for elevator control devices in Hikvision private protocol available:
      - By detecting online devices in the same subnet with the SYS server or current PC
      - By specifying the device IP address
      - By importing in a batch
    - ✓ For indoor stations and door stations, set device location information
    - ✓ For indoor stations, set related resident (person) information
    - ✓ Set time zone for the device
    - ✓ Relate camera with indoor station
    - ✓ Device parameters configuration



- Link persons with indoor station on the Web Client
  - ✓ Link persons with one indoor station in the Physical View module
  - ✓ Link persons with indoor stations in a batch in the Person module



- Group resources of video intercom devices (such as doors) into areas on the Web Client
- Set events and alarms for video intercom devices on the Web Client
- Video intercom on the Control Client
  - ✓ View live videos of door's related camera(s)
  - ✓ Control doors to lock, unlock, remain locked, or remain unlocked during live view
  - ✓ Call the added indoor station for starting voice talk with the resident, viewing the video of the indoor station's camera, etc.
  - ✓ Answer the call from the added door station and open door if needed
- Video intercom device health status in Health Monitoring module on the Control Client

## 1.7 Elevator Control

Supports searching device logs of elevator control devices on the Control Client.

## Device Logs


**Type**

☐ Online/Offline Log
 ☒ Log on Device

Elevator Control Device

**Device**

Search

 10.18.65.227

**Type**

Search

☐ Alarm  
☐ Exception  
☐ Operation  
☐ Event

**Time**

Today

Search

## 1.8 Visitor

1. The template for importing and exporting visitors supports multiple languages.
2. Supports Enrollment Station for the following functions:
  - Enroll a face profile to a visitor
  - Enroll a fingerprint to a visitor
  - Issue a card to a visitor
  - Issue cards to visitors in a batch

## 1.9 Entrance and Exit

1. In the Physical View module on the Web Client, supports adding display screens which are used for displaying vehicle and parking lot information.

Encoding Device  
Access Control Device  
Elevator Control Device  
Video Intercom Device  
Security Control Device  
Dock Station  
**Display Screen**  
Recording Server  
Streaming Server  
DeepinMind Server

### ← Add Display

① Display is used for showing the parking lot and vehicle information in entrance and exit scenario. After adding, please link a lane with the display in lane settings page.

\* LAN IP Address

\* Alias

- In the Vehicle module on the Web Client, supports setting entry & exit rule, enabling parking space control, and setting effective period when adding a vehicle list.

### ← Add Vehicle List

\* List Name

List Color

Entry & Exit Rule

☐ Parking Space Control

☐ Effective Period

Description

- In the Vehicle module on the Web Client, newly added Parking Lot configurations.
  - Add one parking lot and set capacity, number of free parking spaces, maximum parking duration, and expiration prompt
  - Add entrance and exit for the parking lot
  - Add lanes for entrance and exit
    - ✓ Set lane type as entrance or exit
    - ✓ Link capture unit with lane
    - ✓ link a video intercom device or access control device with the lane for video intercom or opening barrier by swiping card
    - ✓ Link display screen with lane
    - ✓ Set device which controls to open the barrier: capture unit or device for video intercom or opening barrier by swiping card



- If you have linked one display screen with the lane, set contents displayed on the screen

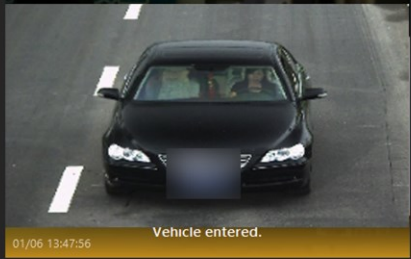
4. In the Vehicle module on the Web Client, newly added Entry & Exit Rule configurations.

- set rule for vehicles in the vehicle list: automatically or manually open the barrier gate when detecting vehicles in the vehicle list
- Set rule for vehicles not in the vehicle list: automatically or manually open the barrier gate
- Set schedule for the rules

5. On the Web Client, supports parking lot event/alarm configuration including:
  - Calling Center
  - Overstayed Event
  - Park in Forbidden Period
  - Vehicle Matched Event
  - Vehicle Mismatched Event
6. On the Control Client, newly added Entrance/Exit module:
  - View information of vehicles entered or exited from the parking lot

Default Entrance Exit ▾ **Entrance & Exit** **Free Parking Spaces/Capacity** Free Parking Spaces 3780/10000


Enter **Vehicle Entering**



01/06 13:47:56 Vehicle entered.

Allow(Space)

Exit **Vehicle Exiting**



No entry picture found.

Entering Time

Exit Time 2020/01/06 13:44:41

Duration

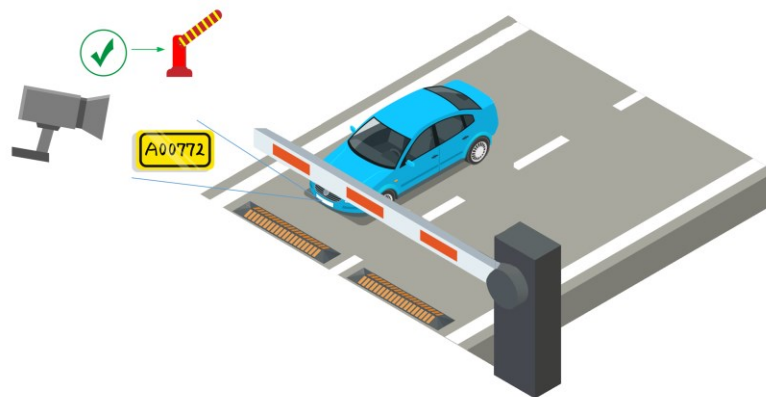
List shaoxinyu

Allow(F12)

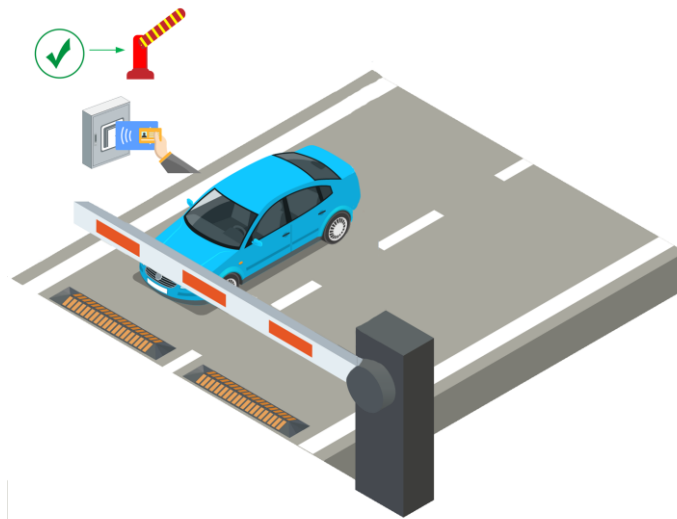
	ture	License Plate Number	Vehicle List	Direction	Passing Time	How to Open Barrier	Allowed or Not	Operation
<p>Vehicle Record</p> <p>Barrier Control</p>				Enter	2020/01/06 13...	Not Allowed	Not Allowed	① P ↗ Q
				Enter	2020/01/06 13...	Not Allowed	Not Allowed	① P ↗ Q
				Enter	2020/01/06 13...	Not Allowed	Not Allowed	① P ↗ Q
				Enter	2020/01/06 13...	Not Allowed	Not Allowed	① P ↗ Q

**Detected Vehicle Information and Barrier Control**

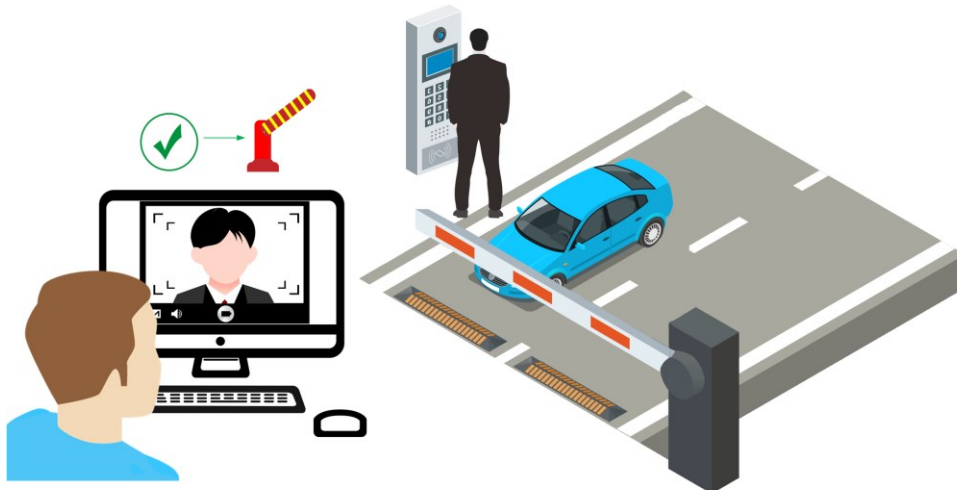
- Add the new detected vehicle to the vehicle list
- Search logs of recognized vehicle license plate and the related vehicle passing information
- Open barrier automatically according to the configured entry & exit rule



- Open barrier automatically after the vehicle owner swiping her/his card



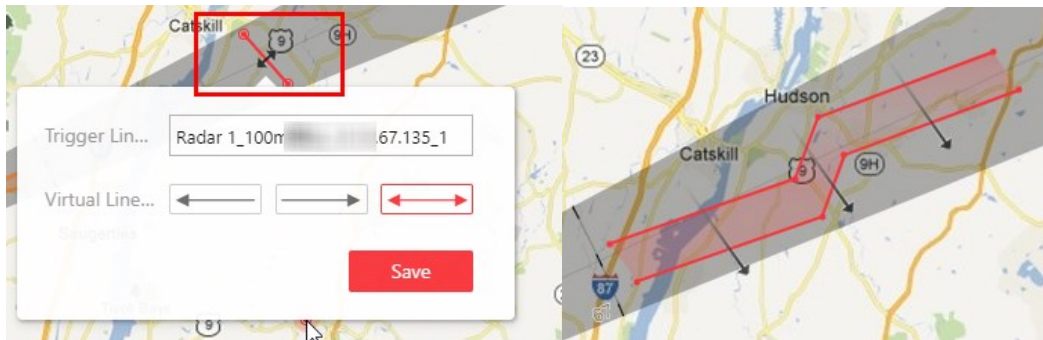
- Open barrier manually and enter remark information (optional)
- Open barrier manually during video intercom



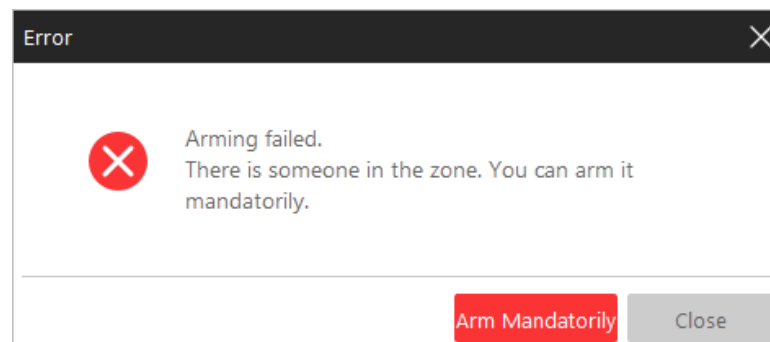
- Correct the license plate numbers recognized by capture units
- Barrier control to open, close, or remain the barrier open

## 1.10 Security Control

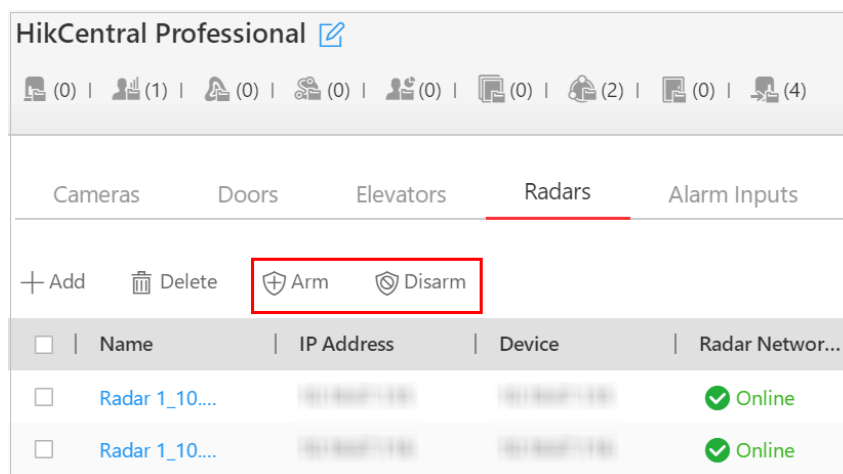
1. Supports arming wireless security control panel when its EN50131 Compliant Mode is enabled. After clicking Arm, you will be informed if any fault is detected. In this situation, you can still arm the security control panel.
2. The Control Client and Mobile Client support receiving, viewing, storing, and downloading short alarm-related videos collected by wireless security control panels in the alarm pop-up window.
3. Supports managing 100m security radar.
4. Supports drawing trigger lines on the map and setting trigger line rule, which means an alarm will be triggered if somebody or something crosses the line.



- Supports arming radars mandatorily. You can still arm the radar if a device exception is detected.



- Supports showing the FOV (field of view) of radar's calibrated cameras on the map.
- Supports watching specified targets in the radar's detection area.
- Supports arming/disarming radars by the Web Client.



## 1.11 Smart Wall

- Supports displaying C10S-T signal source on the smart wall with cascade.
- Supports displaying live view/playback of ISUP2.0, ISUP3.0, and ISUP 4.0 devices on the smart wall.
- 1600KI network keyboard supports enlarging/restoring small windows in a divided window and roaming windows, saving views, receiving resource updating information, and displaying cameras in Remote Sites on the smart wall.

4. 1600KI network keyboard supports logging into HikCentral Professional account by HTTPS protocol.


## 1.12 OpenAPI


1. The Web Client supports viewing live view/playback by integrating jsDecoder that works without plug-in.
2. Supports viewing live view by streaming based on RTSP protocol.
3. Supports adding/editing/deleting a person and getting person picture by a third-party client integrated with OpenAPI.
4. Supports receiving facial recognition event of recognized/unrecognized faces, marking matched and unmatched faces by different labels, and detecting the faces' locations.
5. Added an API to get an organization's information.
6. Added an API to add an organization.
7. Added an API to edit an organization's information.
8. Added an API to delete an organization.
9. Added an API to add a face comparison group.
10. Added an API to edit the information of a face comparison group.
11. Added an API to delete a face comparison group.
12. Added an API to apply face comparison group to device.
13. Added an API to add a face's information.
14. Added an API to delete a face's information.
15. Added an API to search for face information in face comparison group.
16. Added an API to download face picture via URL.
17. Added an event type code "131659" (Face Picture Comparison) to Event Types.
18. Added three event message examples, i.e., Access Control Event Message, ANPR Event Message, and Face Comparison Event Message to the "data" parameter of Event Message Format.

## 1.13 Others


1. Supports adding and managing ISUP2.6 and ISUP4.0 devices, getting these devices' basic information, channels, and capabilities.
2. Supports configuring a reminder in the System module on the Web Client that will appear when the SUP (Software Upgrade Program) is due.


### SUP Upgrade Prompt


Upgrade Prompt 

 Prompt Me Before (Days)

\* Recipients

 Up to 64 recipients can be added.

 Add User

 Add Email

Save

## Chapter 2 Updated Features

### 2.1 Event and Alarm

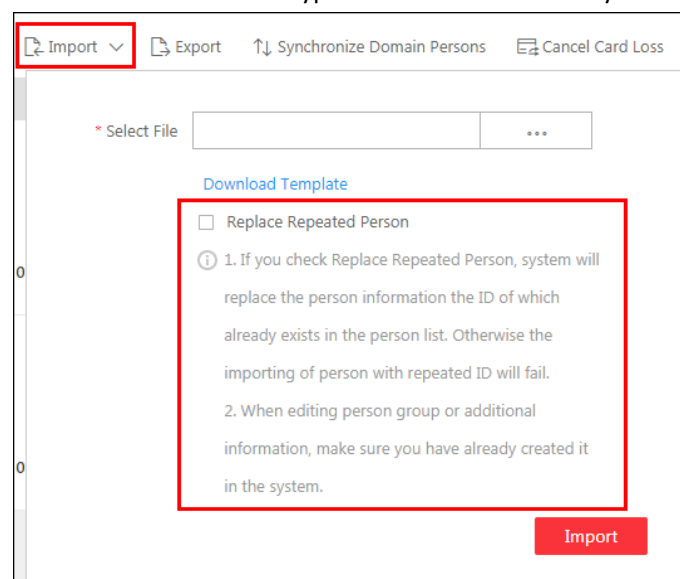
1. Narrowed down the time period of videos in the alarm pop-up window on the Control Client to 12 minutes, so that you can jump to the time when the event happens easily.
2. Supports displaying the picture captured when the alarm is triggered in the Alarm Information window of the Control Client.
3. Supports configuring cameras without recording schedule as the related camera of an alarm.
4. Fixed the bug that triggering behavior analysis event/alarm failed.

### 2.2 Map

1. Supports clicking to select an emergency operation group's area on the map if there is an overlapped part with another emergency operation group's area.
2. Fixed the bug that displaying wrong location of FOV cameras.

### 2.3 Person

1. Supports resident information when importing and exporting person information.
2. When importing person profiles, edited the naming rule of the profiles: Person Name or Person Name\_ID. The person name should contain first name and then last name, separated with one **plus sign**. The person name can contain more than one space.
3. When importing visitors, supports checking **Replace Repeated Person** and system will replace the person information the ID type and ID of which already exists in the person list.



4. Supports setting resident information when adding a person.

**Add Person**  
Add to Dock Station Group

\* Login Password

Dock Station Group

☐ All  
☐ 1

[Add New](#)

**Resident Information**

Indoor Station

> Community 1

[Add New](#)

Room

The room number will be applied to the door station. Please make sure the room number is consistent with the indoor station's location information.

[Add](#) [Add and Continue](#) [Cancel](#)

5. Supports filtering persons by credential status.

**All Persons**

+ Add Delete Move Batch Issue Cards to Persons Import Export Synchronize Domain Persons

Name  ID

Type  Face Comparison Group

Attendance Group  Dock Station Group

[Select Additional Information](#)

**Credential Status**

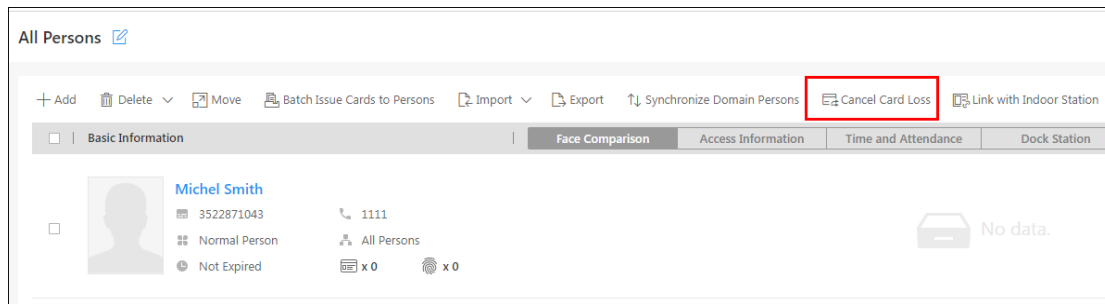
All  
No Card Configured  
No Face Configured  
No Fingerprint Configured  
No Credential Configured  
Report Card Loss  
Set Temporary Card

Basic Information Face Comparison Access Information

Persons x 0

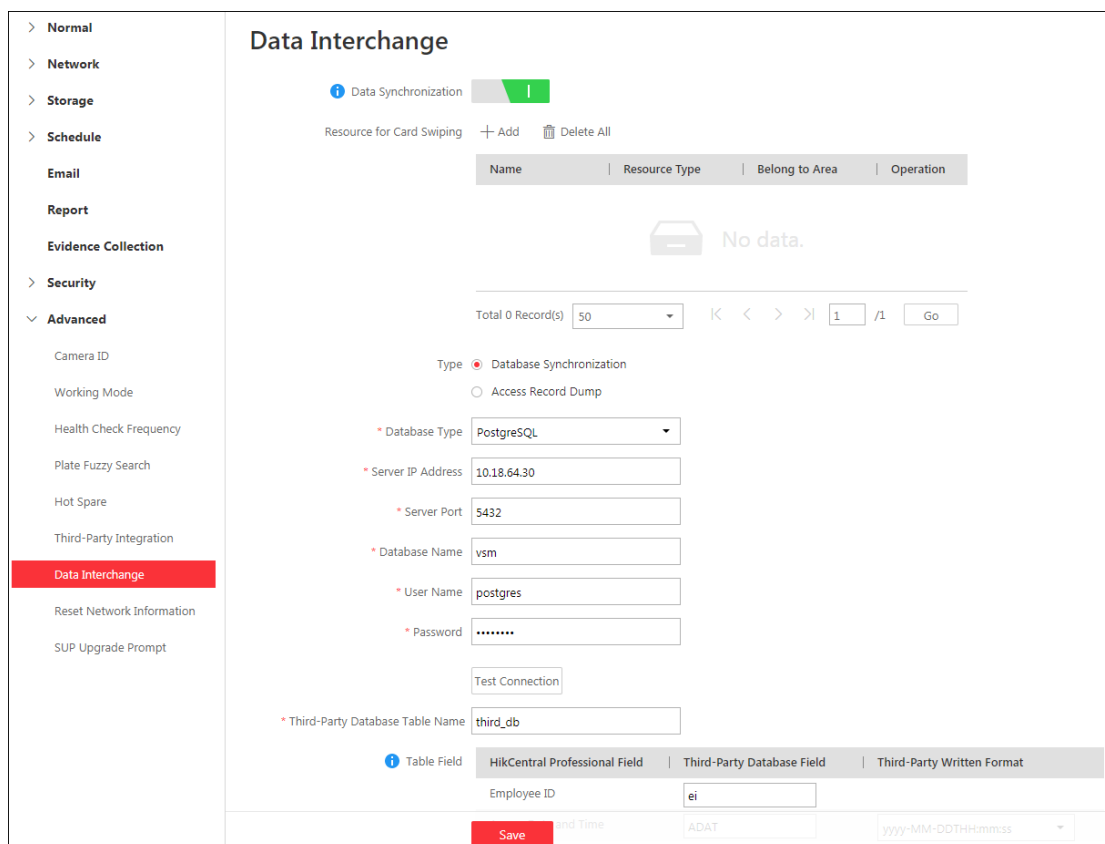


## 6. Supports canceling card loss in a batch.



## 2.4 Access Control

1. Deleted enabling or disabling person profiles. The profiles of the persons added to access groups are enabled by default.
2. Up to 512 access groups and 512 access levels can be added. Up to 50,000 persons can be added to one access group.
3. Supports setting storage in pStor for ISUP devices on the Web Client.
4. Supports displaying the configured access mode of the card reader in the access record details.
5. Move the third-party data interchange settings from Time and Attendance module to System.



6. In Data Interchange, change attendance point to Resource for Card Swiping.
7. Supports reconnection of third-party database if it is disconnected.

8. In database synchronization of data interchange, added following table fields: person name, card No., and direction.

Table Field	HikCentral Professional Field	Third-Party Database Field	Third-Party Written Format
Employee ID		ei	
Access Date and Time		ADAT	yyyy-MM-DDTHH:mm:ss
Access Date			yyyy-MM-DD
Access Time			HH:mm:ss
Device Name		dn	
Device Serial No.		dsn	
Person Name			
Card No.			
Direction			Enter Exit

## 2.5 Visitor

When importing visitors, supports checking **Replace Repeated Visitor** and system will replace the visitor information the ID type and ID of which already exists in the visitor list.

The screenshot shows the 'Visitor Registration' window with the 'Import' button highlighted. A red box highlights the 'Replace Repeated Visitor' checkbox and its description: 'If you check Replace Repeated visitor, system will replace the visitor information the ID type and ID of which already exists in the visitor list. Otherwise the importing of visitor with repeated ID will fail.'

## 2.6 Time and Attendance

In the reports of time and attendance, added a column of person group.

## 2.7 Smart Wall

1. Fixed the bug that displaying zero channel on the smart wall failed when displaying by direct streaming.
2. Provides faster view switching speed and better view displaying quality. (The decoder should be updated beforehand.)

3. Provides faster displaying speed of tiling mode and better displaying quality. (The decoder should be updated beforehand.)
4. Provides faster speed and better quality of network keyboard PTZ control.

## **2.8 OpenAPI**

1. Extended the streaming protocol type of live view.
2. Extended the streaming protocol type of playback.
3. Extended the data type of playback URL and video segment information.
4. Extended the storage location types of videos.
5. Extended the data type of video segment information.
6. Extended the request parameters of adding or editing person
7. Extended the data type of person information.
8. Extended the data type of access point event information.
9. Extended the resource capability.

## **2.9 Others**

1. Supports disabling Daylight Saving Time for Brazil users.



See Far, Go Further