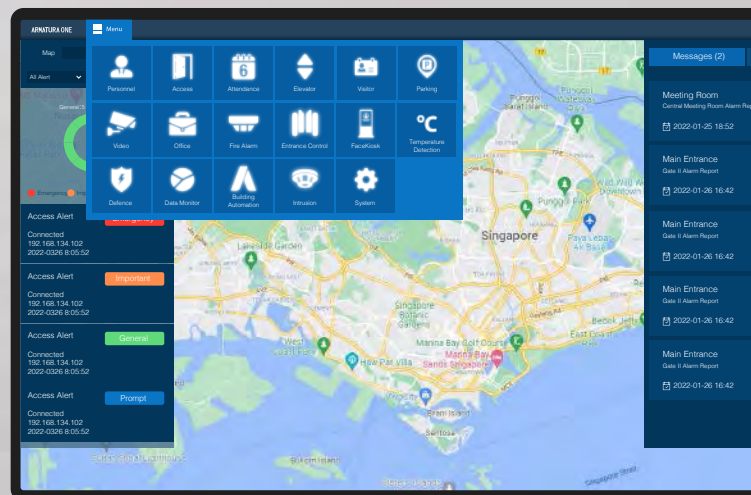


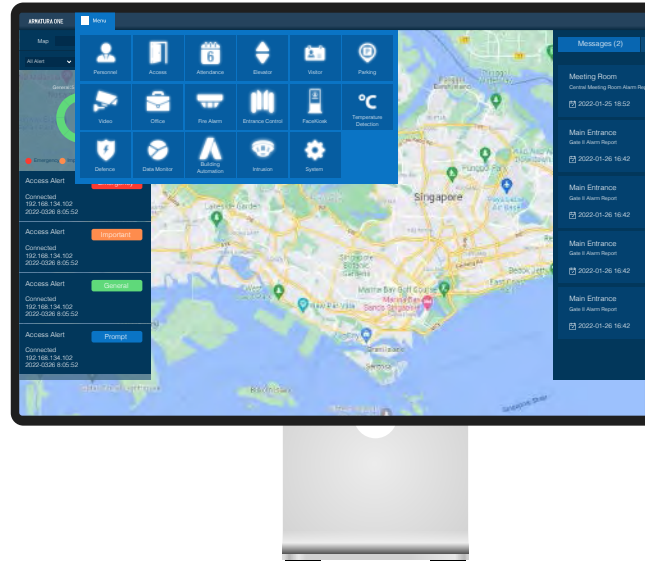
# ARMATURA ONE

All-in-One Web-Based  
Integrated Security Platform



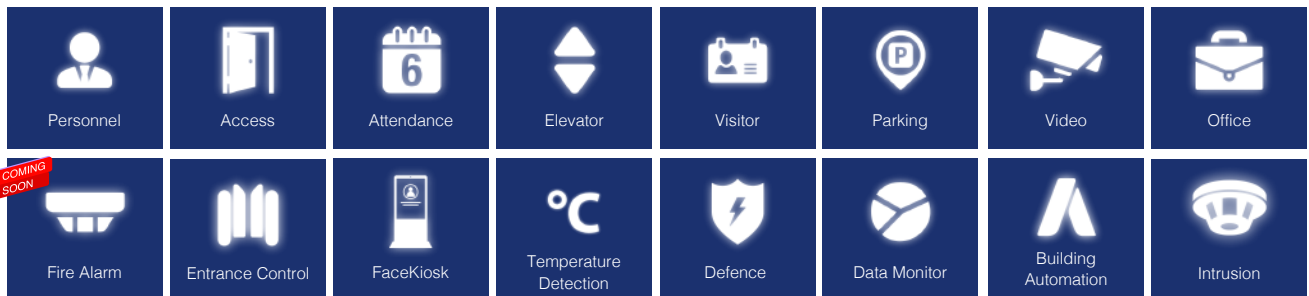
## Armatura One Security Platform

Web-Based Versatile Security Platform



### All-in-One Web-Based Integrated Security Platform

Armatura One is the ultimate “All-in-One” web-based security platform developed by Armatura. It contains multiple integrated modules: Personnel, Access Control, Time & Attendance, Elevator, Visitor, Parking Management, Video Management System, Office, Fire Alarm, Entrance Control, FaceKiosk, Temperature Detection, Defence, Data Monitor, Building Automation and Intrusion.



### Overview

Armatura One is a web-based security platform developed & based on the ideas of being Openly Integrated, Highly Secure and User-friendly. Providing a comprehensive security solution including access control, elevator control, visitor management, parking management, time & attendance, building automation and intrusion alarm with the most advanced levels of security. To ease users' cyber security and privacy concerns, all the data within the system is encrypted with Advanced Encryption Standard (AES) and Transport Layer Security (TLS) cryptographic protocols and the whole system is certified with ISO27001, ISO27701 and ISO27017. In addition, it has a Restful API and SDK to integrate with almost all 3rd party systems. Moreover, with the help of the Armatura protocol gateway; Armatura One supports up to 260+ industrial-grade communication protocols including BACnet, OPC, and Modbus to flexibly integrate with 3rd party industrial-grade sensors and controllers with custom conditions and rules. At the same time, Armatura One supports various authentication credentials in line with advanced biometric technologies, mobile credentials, encrypted dynamic QR codes, and multi-tech RFID technologies to best suit all customer's needs.

# ARMATURA ONE

## Introduction to the modules



Personnel

- Personnel

Personnel primarily consists of two parts: Department Management settings, which is used to set the Company's organizational chart; and Personnel Management settings, which is used to input personnel information, assign departments and sub-departments (more than 10 levels), maintain and manage personnel information and setting.



Access

- Access Control

Access Control is a web-based management system which enables advanced access control functions, management of networked access control panel and standalone devices via computer, and unified personnel access management. The access control system sets door opening time and levels for registered users.



Attendance

- Time & Attendance

As an "All in One" security platform, the Armatura One contains a web-based time attendance module. Administrators can manage the Time Attendance anywhere once they can access to the Internet. Moreover, this is a powerful Time Attendance system, which can handle most of the complicated time attendance circumstance, such as, flexible shifts, multi-level OT, cross day shift and online leave application with multi-level approval.



Elevator

- Elevator

Elevator Control is designed to control the elevator access authentication, to manage access rights (using RFID card, Fingerprint, and other biometric technology) to different floors and supervise elevator events. Administration can set floor level for the registered user and interact with the access control module to achieve the one stop management purpose. Only the authorized users can access to certain floors and doors within a period of time after being authenticated.



Visitor

- Visitor

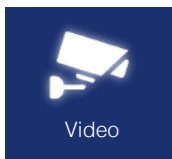
Visitor Module is a web-based management system that implements entry registration, exit registration, snapshot capturing, visitor quantity statistics, reservation management and shares information among registration sites. Integrated with the access control and elevator control module, it is used at the reception desks and gates to manage visitors.



Parking

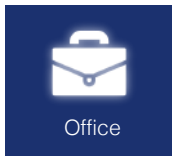
- Parking Management

Automatic and intelligent vehicle management effectively and accurately monitors and manages vehicles at all exits and entrances.



## • Video Management System

Video Management System (VMS) is fully integrated with Armatura One and 3rd-party video surveillance system, such as milestone Xprotect, Huawei, with most of the intelligent video functions including object detection, area detection and line crossing alert can easily be applied to access control system.



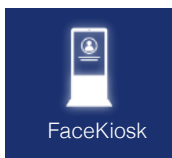
## • Office

Armatura Office module combines modern Meeting Room and Shared Work Booth reservation systems to enable efficient reservation management. With the module, users are enabled to generate QR codes and share to their guests for access, making simple yet effective access control.



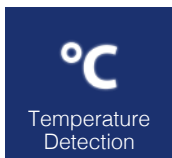
## • Fire Alarm

Armatura Fire Alarm Module is an integrated system of fire alarm management system which is integrated with 3rd Party Fire Alarm, and also supports other 3rd party systems for various kinds of alarm devices. With convenient E-map and various monitoring functions, the system offer you an optimal security with high cost-effectiveness and performance.



## • FaceKiosk

By supporting third-party kiosk devices, Armatura One offers convenient face recognition solution for various applications which effectively manages time & attendance with kiosk devices, and enables user-friendly attendance details display and advertisement display, for enhanced cost-effectiveness and preciseness of time & attendance management.



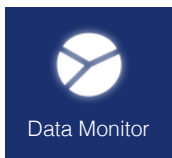
## • Temperature Detection

Armatura One is able to provide accurate and fast temperature detection during verification. It offers responsive, intuitive and user-friendly web application and various reports for body temperature and Mask detection devices.



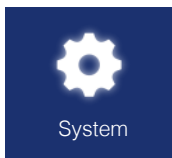
## • Defence

Defence module is a scenario-based defense mechanism which offers both capacity control and access control with high security and convenience. It detects human faces, counts numbers of access and exit, verifies and tracks people for optimal access control solution with ultimate efficiency and safety.



## • Data Monitor

Armatura Data Monitor Module is a comprehensive management tool for access control, visitor management, office, personnel video and system, users may have clear and complete overview of all information, trends and statistics for efficient and convenient monitoring and administration.



## • System Management

System Management is designed to assign system users, configure the corresponding modules, manage the database, set system parameters and manage the system operation logs.



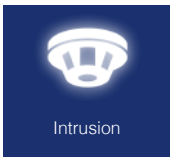
- Entrance Control

The system connects the gate control board through channel devices and directly controls the relevant parameters of the gate through software, which enable full control of entrance and exit and automatic management of the gate.



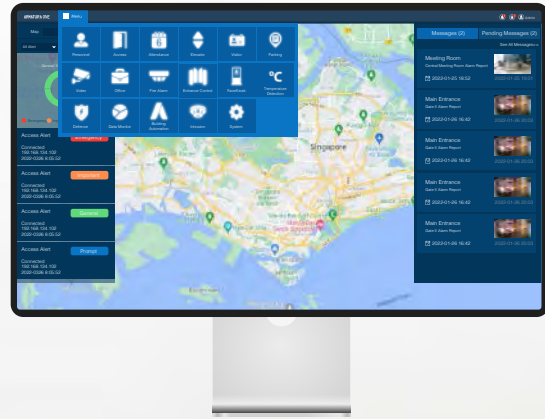
- Building Automation

Building automation control uses computerized centralized control, which centralizes decentralized control for centralized management. Its decentralized controller usually adopts direct digital controller (DDC), which uses computer for monitoring and management of the screen. Building automation is composed of several systems including: air conditioning HVAC and ventilation monitoring system, water supply and drainage monitoring system, lighting monitoring system, power supply monitoring system, and structured integrated wiring system, and dynamic environmental monitoring system, with the aim of improving occupant comfort, efficient operation of building systems, reducing energy consumption, and operating costs as well as improving the service life of utilities.



- Intrusion

Intrusion Alarm module Intuition Alarm is an electronic system that uses sensor technology and electronic information technology to detect and indicate illegal entry or attempted illegal entry into a fortified area (including subjective judgments when facing hijacking or robbery or other critical situations, intentionally triggering an emergency alarm device), process alarm information, and send alarm messages.



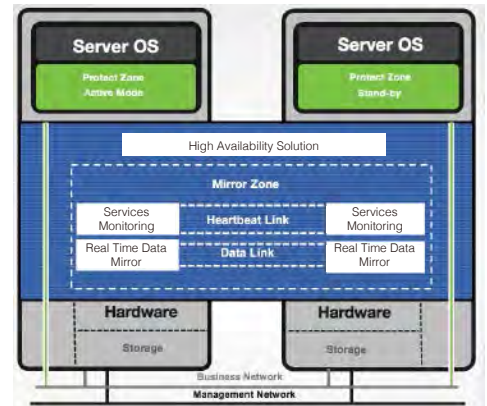
## Highlight 1: Web Based Access Control and Time attendance Software

Users can access the centralized system anywhere by their web browser to remotely manage thousands of standalone terminals and controllers under wide area network (WAN).



## Highlight 2: Highly Integrated with third party high availability solution Continuous Service Guaranteed 24/7

Armatura One can integrate with third party platform to provide professional real-time sync of business data and business continuity protection for customer. The solution supports high availability protection for different app software platforms and mainstream databases, so as to provide data and app protection for customer's kernel business system.



### • Business Continuity

Armatura One provides the professional real-time sync of business data and business continuity protection for the customer, which solves software/ hardware single point of failure (i.e., system upgrades, computer crash, software bugs, hacking, broken connections and cyber-attacks) and realizes automatic failover in case of failure to ensure business system continuity.



Computer Crash



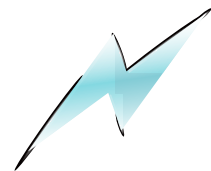
Software Bugs



Cyber Attacks



Broken Connections



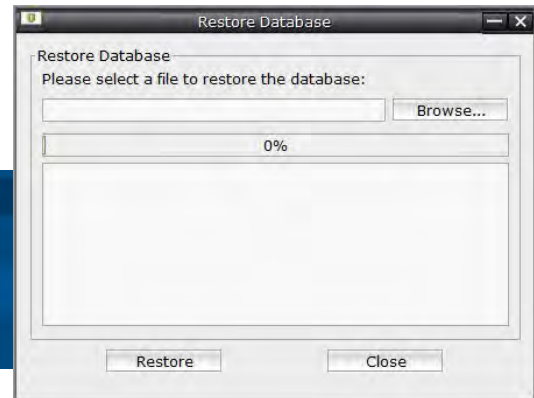
Power Failure

### Highlight 3: Backup

Armatura One has the ability to schedule an automatic backup of the database, mapped to a designated drive at a specific time.

<input type="checkbox"/>	Username	Start Time	Database Version	Backup Immediately	Backup Status
<input type="checkbox"/>	admin	2022-02-11 18:00:04	4.0.0.1	<span style="color: red;">✘</span>	<span style="color: green;">✔</span>
<input type="checkbox"/>	admin	2022-02-04 18:00:04	4.0.0.1	<span style="color: red;">✘</span>	<span style="color: green;">✔</span>
<input type="checkbox"/>	admin	2022-01-28 18:00:04	4.0.0.1	<span style="color: red;">✘</span>	<span style="color: green;">✔</span>

Backup Database



Restore Database

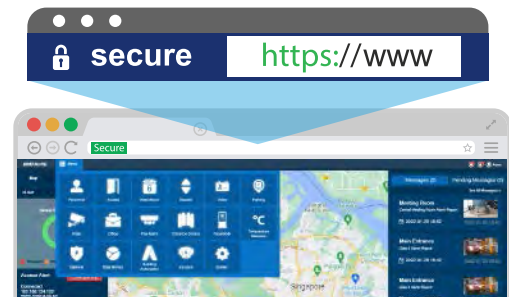
### Highlight 4: Data Cleaning

The data cleaning function is designed to optimize the Armatura One System performance by scheduling a cleanup of outdated data on designated modules or all modules.

Record	Retains the recent	Unit	Frequency
Personnel Transactions*	15	Month	▼
Access Transactions*	15	Month	▼
Office Transactions*	15	Month	▼
Integration Transactions*	15	Month	▼
Elevator Transactions*	15	Month	▼
Visitor Transaction*	15	Month	▼
Parking Transactions*	15	Month	▼
Defence Transactions*	15	Month	▼
Video Transactions*	15	Month	▼

### Highlight 5: HTTPS

Armatura One provides a high secure communication over a computer network, HTTPS (HTTP Secure), an adaptation of the Hypertext Transfer Protocol, which is widely used on the Internet, it means all communications between your browser and the Armatura One Client are encrypted.



### Highlight 6: Email, WhatsApp, Line, Amazon SNS, SMS

After the email server is setup, the system can send Email, WhatsApp, Line, Amazon SNS and SMS notifications automatically to designated recipients. For example, if the door is opened forcefully, notification email will be sent to the administrators; if the employees have abnormal attendance records, SMS will be sent to the administrators.



Email



WhatsApp



Line



Amazon SNS



SMS

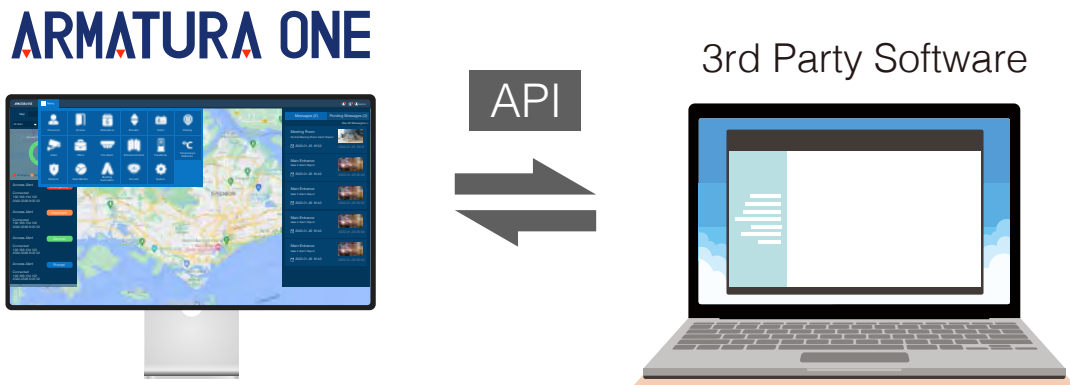
## Highlight 7: Operation Log

The Operation Log function monitors and records the operation on the system modules. This function enables users to check who performed each operation, when it was performed, what was performed, and where it was performed. In addition, this function can help you analyze the causes of system errors or other types of problems from the record data.

Operator	Time	IP Address	Time (m/s)
John	10:05	172.31.1.10	295
Matthew	12:05	183.254.1.1	350
Panna	14:30	172.31.1.10	204
Sonia	16:05	172.31.1.10	841
Venessa	17:20	258.235.1.1	245
Karley	19:48	172.31.1.10	254

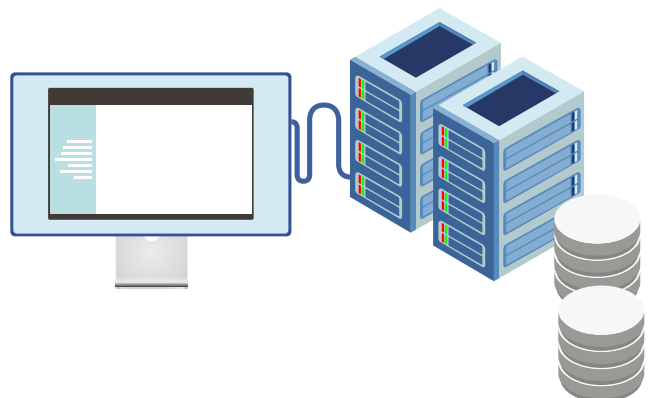
## Highlight 8: 3rd Party API (Application programming interface)

The Armatura One platform can be integrated with multiple applications of 3rd party software. Typically, the functions include data input and system queries.



## Highlight 9: DNS

When using Armatura One on a WAN (Wide Area Network) the terminals and controllers can be accessed and configured outside the LAN (Local Area Network) by using a DNS (Domain Name Server). Using an IP address provided by the local internet provider, the end user is able to connect to the service via the DNS and manage the system.





## Highlight 10: Supports Visible Light Recognition

The Visible Light Facial Recognition System is widely suitable for various applications including offices, warehouses, clinics, manufacturing plants, catering premises and constructions sites etc. For staffs that have been tired of long queue, it no longer requires waiting long time and walking in front of conventional passive recognition systems for fingerprint or facial verification. Instead, with the great convenience and efficiency brought by the Visible Light Facial Recognition System, staffs only need to walk straight through, and the System actively match faces and data.



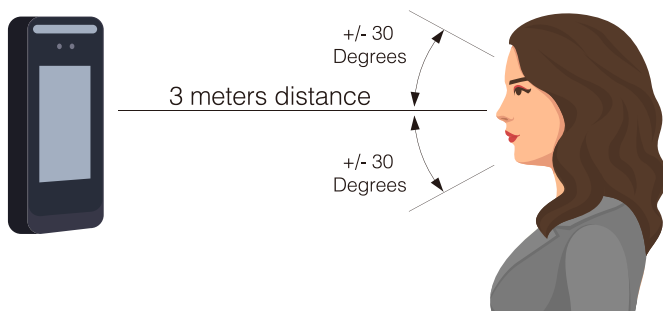
With Armatura Visible Light Recognition, users and visitors are now able to quickly finish verification and directly enter the controlled area once the verification is completed.



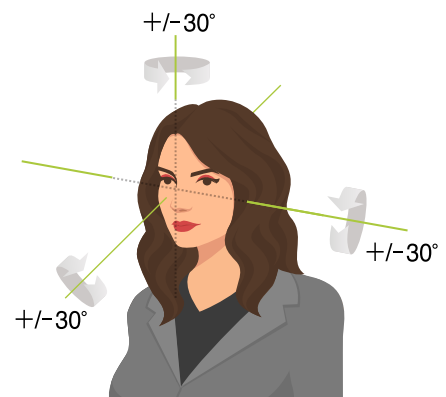
If the person is not allowed to access the area, or the verification is failed, the lock will remain locked.

## Recognition distance 3m long and extra wide-angle recognition

The visible light facial recognition is way faster than the previous near infrared facial recognition, and the recognition distance has been greatly extended up to 3 meters long, which significantly improves maximum traffic rate.

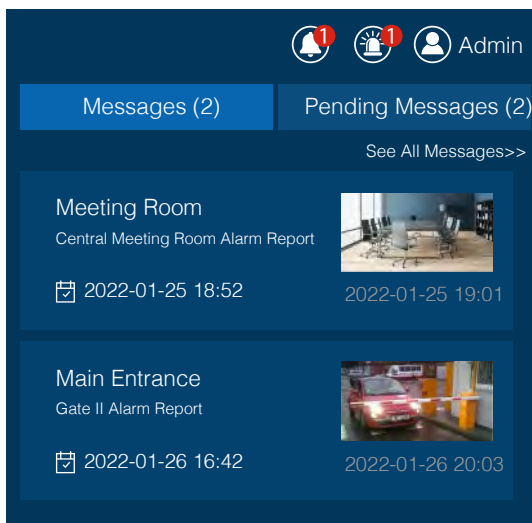
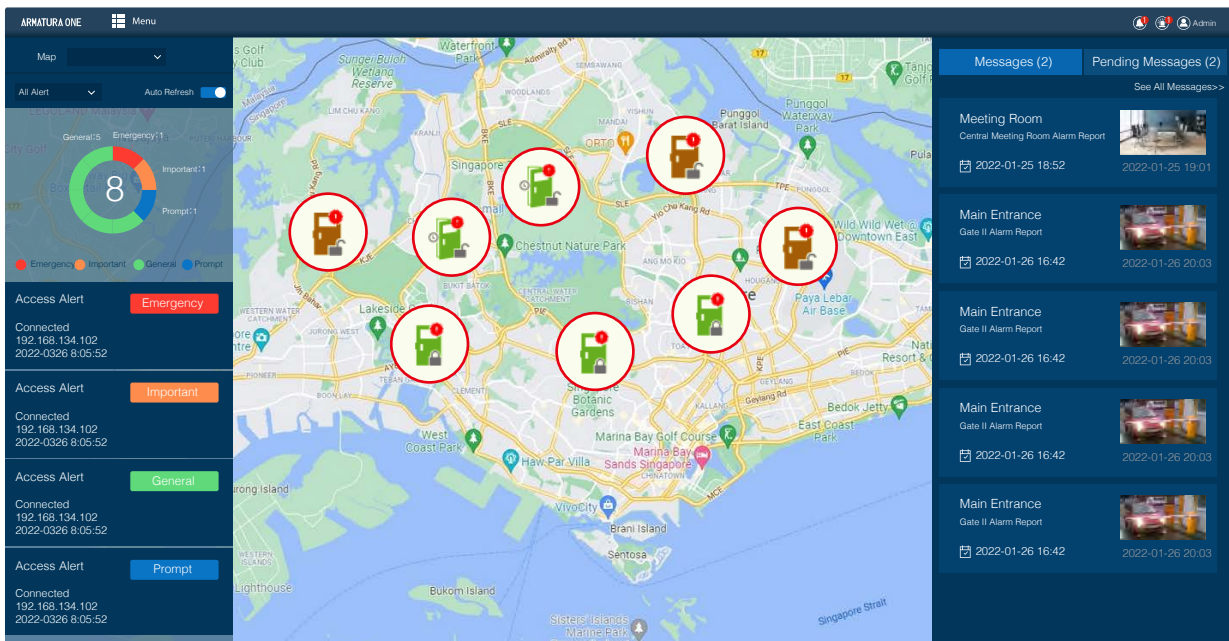


While most of algorithms only support 15-degree angle facial recognition, Armatura supports 30-degree angle facial recognition.



## Highlight 11: Alarm Center

New features have been added into the ISP, integrating alarm information including access control, video surveillance and fire service etc. to centrally and visually display, and collaborate into GIS map for security staffs to quickly locate the positions of events of abnormality, view playbacks of the videos of the events, preview live real-time videos, record event details, and track personnel and related vehicles etc., achieving quick yet convenient handling of events.



## Highlight 12: Message Center

New features have been added into the ISP, integrating various notifications (including visitor, office and system) for centralized display for the staffs' convenience of overviewing the entire situation. Information of the events which requires management staffs to handle will be independently listed until the events have been handled to avoid missed cases.

## Highlight 13: High-Security Mechanism TLS1.2 and Powered by RSA2048 & AES256 Encryption

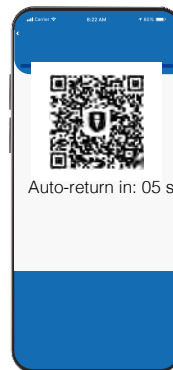
Increase security with TLS1.2 and powered by RSA2048 and AE256. TLS1.2 is a method to achieve secure communication over an insecure channel by using a secret key exchange method, an encryption method, and a data integrity method.

AES 256 Encryption which is a strong and robust encryption standard that is commercially available today. With a key length of 256 bits, it supports the largest bit size and is practically unbreakable by brute force based on current computing power.



## Highlight 14: Scramble QR Code

Supports dynamic QR code verification and access through mobile devices upon successful login via mobile phone HTML5 page, and supports staffs' and visitors' use.



## Highlight 15: Mobile HTML 5 Web application (Installation Free)

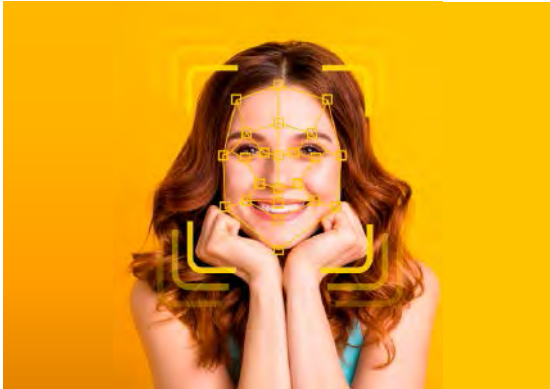
Easy installation and extension. Ready to use via access through mobile server address. Supports 3 user roles including administrator, staff and visitor. Supports independent deployment for isolation from main server for data security.



# ARMATURA ONE

## Highlight 16: Hybrid Biometric Verification

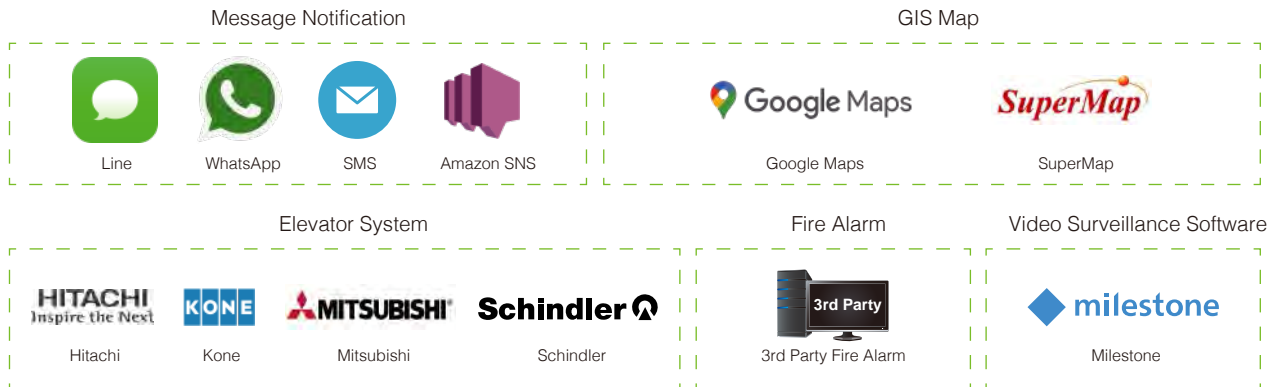
Armatura One supports various kinds of biometric verifications, such as, Palm and Visible Light Facial Recognition.



## Highlight 17: Integrated System

Armatura One has already been integrated with various systems and platforms, including different notifications, map system, elevator control DCS system, fire control system, and 3rd party video surveillance system for the enhancement of the compatibility and extendibility of the software.

### Compatible With



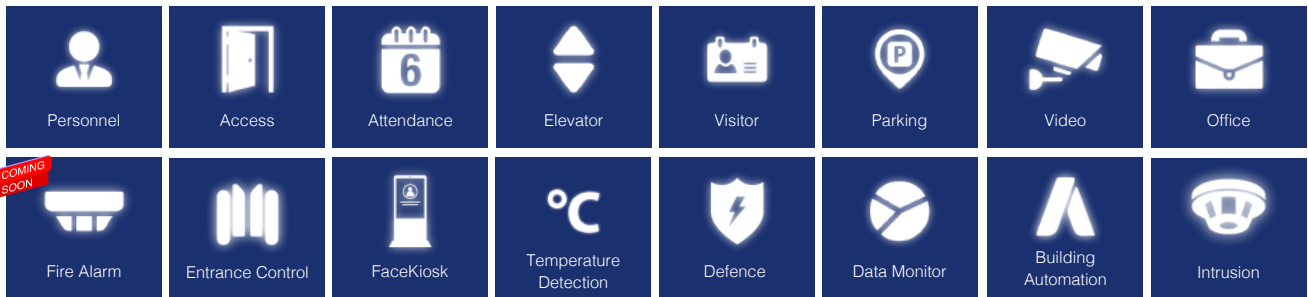
## Highlight 18: Threat Level

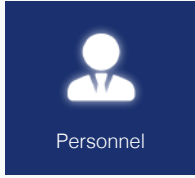
Unlimited threat levels are used to adjust user access during lockdowns and lockouts instantaneously.



# ARMATURA ONE

## Module Features





## Personnel

Personnel consists of two parts: Department Management and Personnel Management. Department Management is designed to set the company's organizational chart. Personnel Management is for personnel information, departments and sub-departments (excess of 10 levels) and to maintain and manage personnel settings.

### All-in-one Solution (Area/ Department)

Armatura One has a user-friendly all in one personnel registration interface, which can enable administrators to input employee's information and staff enrollment (including Face, finger vein, palm and RFID cards) and user's photo in one single page.



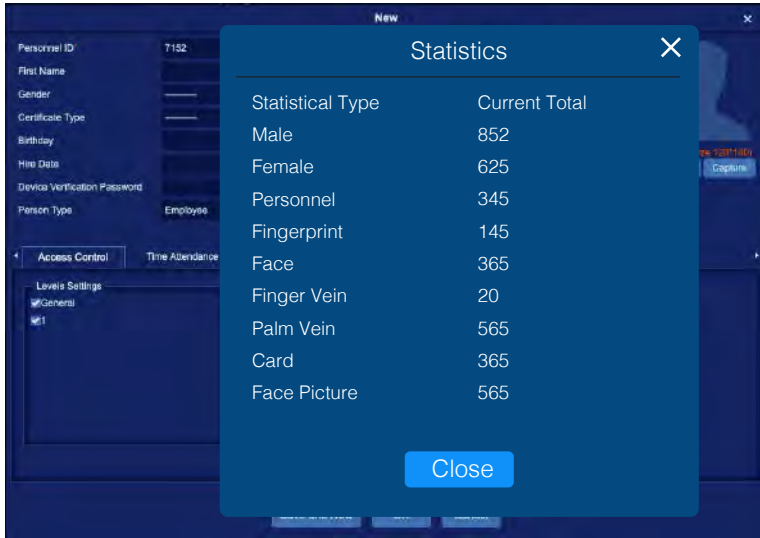
### Supports Various Cards Format

Armatura One is compatible with most PROX card formats, such as: EM, MIFARE, DESFire, DESFire, Legic, HID Proximity, HID iClass, Felica, Type B, ... etc.



## Statistics

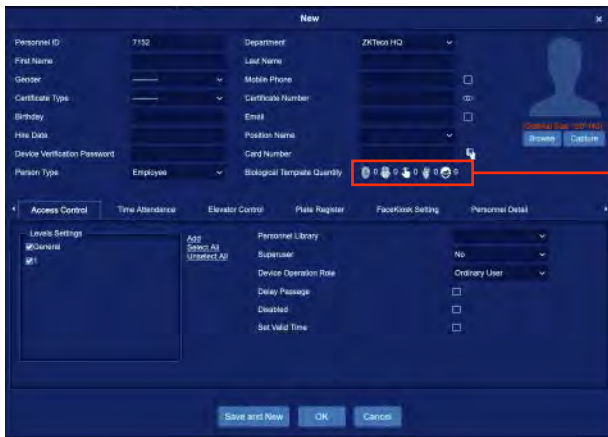
Armatura One has an overview function for viewing the number of personnel, the number of fingerprint templates, facial template, finger vein template, card number, gender and other statistical information.



This is the sample of the Armatura One Statistics list, as the graph shown, it can help administrators easily and clearly observe the company demographic distribution.

## Supports Various Verification (Fingerprint, Finger Vein, Card...etc.)

Armatura One supports various kinds of biometric verifications, such as, fingerprint, finger vein, RFID cards, which submitted data will be recorded by Armatura One.



### Biometrics Template Quantity

- Facial Recognition
- Finger Vein Recognition
- Fingerprint Recognition
- RFID Card Recognition
- Visible Light Facial Recognition
- Palm Recognition

## Batch Import & Export Photos

Armatura One supports batch export and import photos to enhance the app management flexibility.

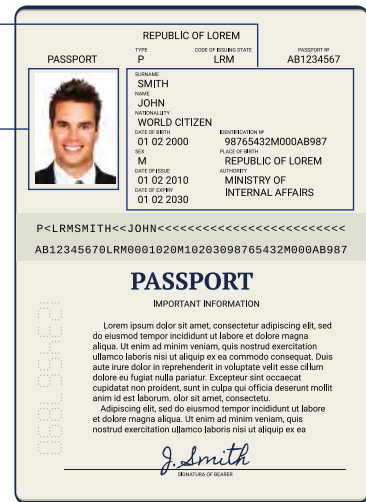


## High-speed Portable HD Doc Scanner Supports

User's Information Capturing + Passport Photo + OCR Recognition

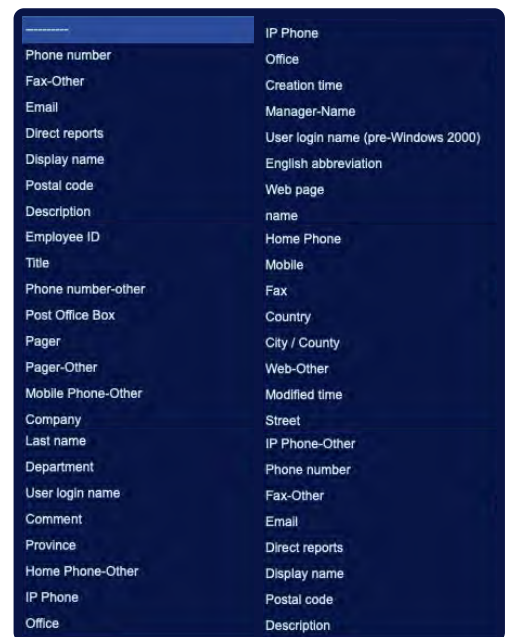
During visitor registration, it supports one-click capture of users' portrait image, passport photo and saving, and uses OCR function to automatically read identity document (identity card, passport etc.) and fill in effective information in order to realize quick registration.

- Passport Photo + OCR Recognition  
OCR function automatically reads identity document
- User's Portrait Capturing or Uploaded from the local PC  
One-click capture of employees' portrait image



## Active Directory with the Database Field

User can call different fields from the AD Sever to map with the database fields, Armatura One almost opens all the field options that are available.



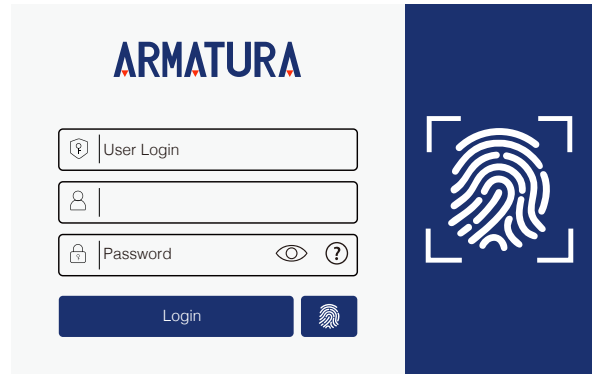
▲ User can choose different fields up to user's decision

If the pre-set AD fields and Database fields are not enough for the user, Armatura One open extra fields for users, and user can setup both database fields and AD sever fields.



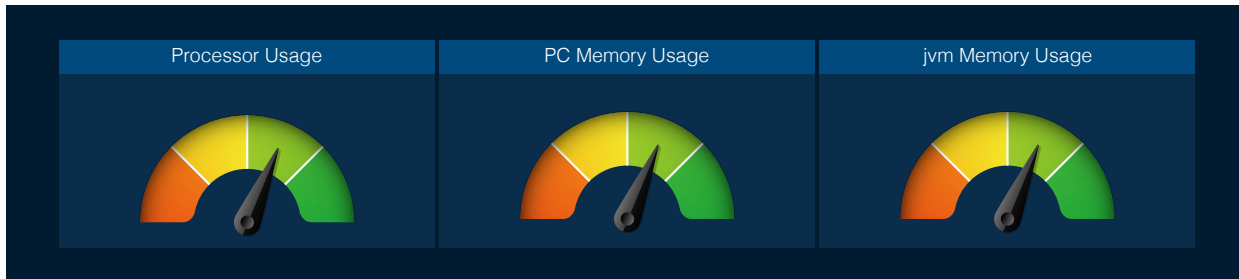
## Fingerprint Login

After user registration, admin can login the system by fingerprint verification, which improves both convenience of management and security level of workplace.



## System Monitoring

The system monitoring function displays server processor usage, host memory usage, processor information, memory information, java virtual machine memory usage and other information, keeping quick operation speed of your server and computer.



## Photo Importing to system

Armatura One allows admin to import employees' photo by single or compress package. Maximum 3000 JPEG can be uploaded each time, and it would be efficient for users to import a batch of picture into the system.



Maximum 3000 JPEG Upload/ batch

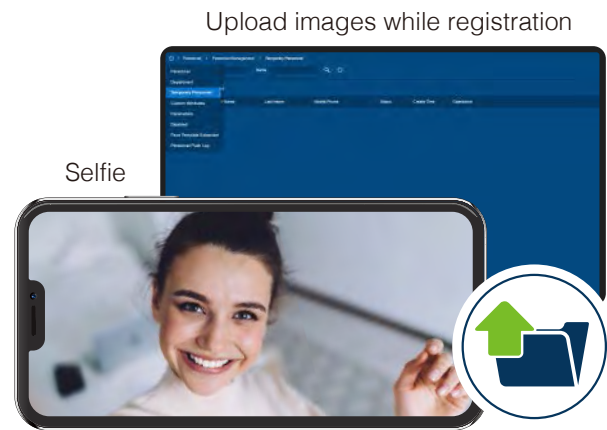
## Card Formats Test

Admin can use the "Card Format Testing" function to have a simple and quick check of the door card. When the card number does not match the one displayed on the system, user can use the function to calibrate the Wiegand format.



## Supports Mobile HTML5 Web Application Personnel Photo as Visible Light Facial Recognition Registration

When using Armatura One Mobile App, when personnel sets a profile picture in the App, that profile picture will be used as the visible light facial recognition template.



## Export/ Import Personnel Information

Personal information can be selected or multi-selected to import and export. User just simply select the field of various information that contains the items you need, the selected contents as this tends to be shown in the table.

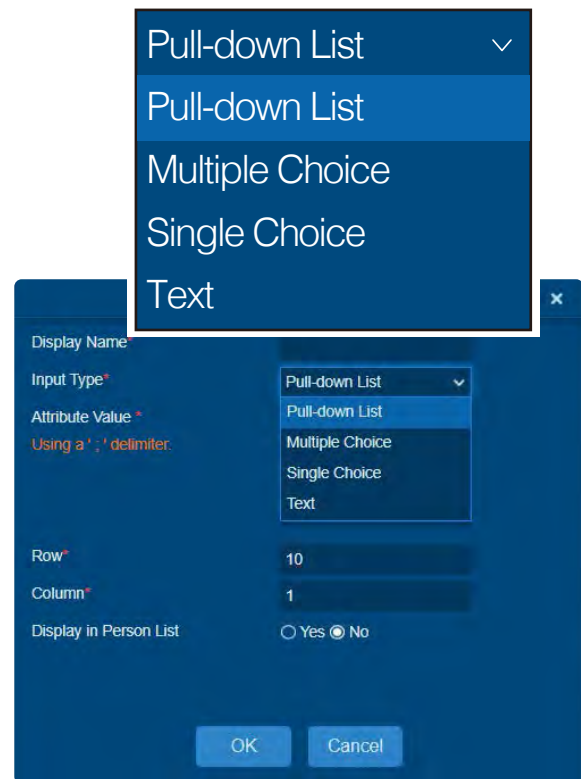
Selected item can be Personal; First Name; Last Name; Department; Gender; Birthday; Mobile Number; Employee Card Number, License Plate Number; Email; Certificate Type; Certificate No...etc.



Exported file could be either Excel, PDF and CSV format.

## Supports Customized Attributes

Multiple contents of field available including drop-down list, multiple choices, single choice and text etc. for customized storage and display.



## Special Personnel Management

It is a convenient feature which enables easy and organized management of personnel, including the management of resigned staffs and temporary staffs. It also provides blocklist management, personnel tag library management and personnel tag library control. Different access levels can be customized and efficient attendance strategies can be achieved for better business success.

### Resigned Staff Management:

Supports management and collaboration of resigned staffs for the convenience of information storage and reinstatement.

### Temporary Staff Management:

Automatic information fill in and approval collaboration.

### Blocklist Management:

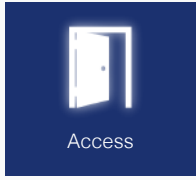
View and management blocklisted. Blocklisted persons' access will be limited, alarm will be triggered upon attempts of verification of the blocklisted persons.

### Personnel Tag Library Management:

Add, delete, edit, and view personnel tag library. Human Resources Management Library is newly added, and tag collaborate partial personnel or groups.

### Personnel Tag Library Control

Enables control of the personnel library, alarm can be triggered upon access control verification of the related personnel in the view of cameras.



## Access Control Module

Access Control is web-based management system which enables advanced access control functions, management of networked access control panel via computer, and unified personnel access management. The access control system sets door opening time and levels for registered users.

## Facial Recognition Access Control

With the combination of Armatura NVR and standalone terminal or camera, access control can be actualized with the interlinkage of facial recognition and access control devices. Upon facial image capturing of the cameras, identity verification will be performed and the access control will be triggered to open doors for access. Users no longer need to stay in front of the devices and wait for verification, enabling enhancement of user experience with better convenience and efficiency.



## Global Linkage

This is a function that generates or triggers an action based on a condition (action-reaction), which is one of the highlighted features of Armatura One. It automates system cross-platform interactive functions and notifications system. There are multiple tiers to the alert process including relay inputs and outputs, and email notification.



### Output point

With Global I/O, the "Output point" allows administrators to configure linkages where multiple events can be linked to any other input/ output/ events in the system. These linkages can be activated by various events with different access levels. Invalid cards, unrecognized fingerprints and motion detection might trigger correlated outputs, alarm outputs.



### Amazon SNS

This allows the system to automatically deliver an SMS to notice administrators once particular events occur.



### Video Linkage

This allows the system to automatically deliver an email to notice administrators once particular events occur.



### Email Notification

This allows the system to automatically deliver an email to notice administrators once particular events occur.

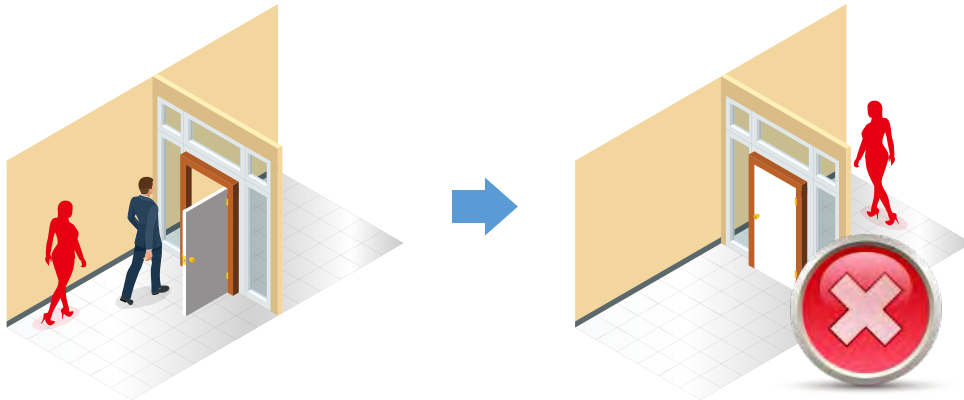


### Integration with SMS, WhatsApp and line Application

Armatura One is integrated in SMS, WhatsApp and line mobile application to send a notification of attendance logs, absent from work and early leave message to recipient in real-time. It can also send daily attendance reports to the Team Leader through SMS, WhatsApp and line Application.

## Global Anti-Passback

Anti-Passback is designed to prevent authorized and/or unauthorized personnel from entering and exiting an area without presenting proper credentials (i.e., tailgating). This security function eliminates users from sharing an access card or password and having several users accessing with the same credentials.



When a person enters a controlled area without authentication, as the red-colored person in the image, that person will be detained in the area, even if he/she has the access rights to the area. Administrative personnel will have to override the system to allow the unauthorized person to exit then enter the area in the future.

## Global Interlock

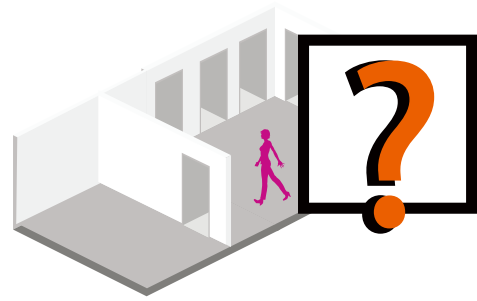
This advanced security function elevates the security level by interacting with different security areas. Interlock is designed to prevent personnel or visitors from opening more than one door at a time, even if the persons have the multiple door access authorities. This function precisely appoints access authorization including activations of access authorization of specific doors when the correlated doors are locked properly. Most commonly used in man-traps.



One door is open, at the same time, the others cannot open

## Who is Inside

By using the "Who is inside" function, administrators can verify how many people remain in a specific area/room, with detailed personal information and access time. This function is typically used in a disaster situation where mustering is required.



John Wilkinson is inside the Area A

Zone	Personal ID	First Name	Last Name	Department	Card Number	Last Access Time
Area A	018964	John	Wilkinson	Account	015635	5:00pm

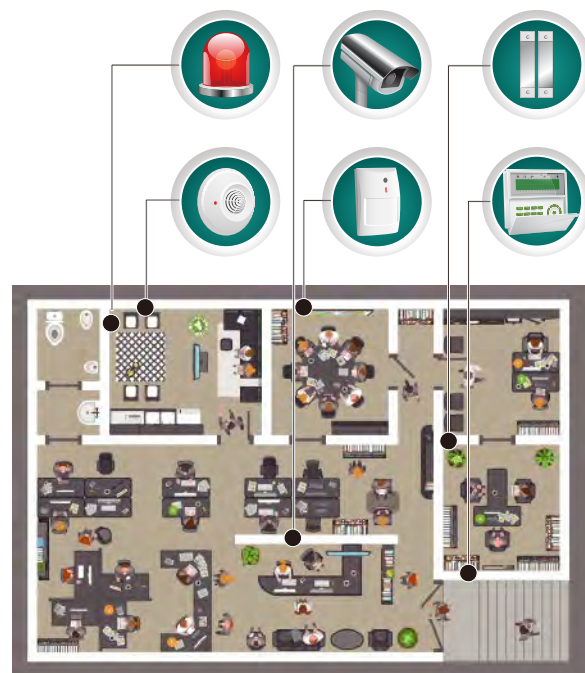
## Access Limitation

Allows administration the ability to limit the number of people in a limited space. Example: If a room is reserved for 10 people, the system can be programmed to accept only 10 authorized credentials, when one person leaves another person can enter constantly keeping the number of occupants at 10.



## E-Map

E-Map enables administrators to have a clear and accurate view of all event points. With its cutting edge multi-level E-map structure, administrators can simultaneously monitor multi-levels / areas events.



## Access Control Time Zone (Card/ Fingerprint)

Allows administration to set specific time zones during the day that specific credentials are valid. Example; During the normal business hours the records room can be access with a RFID card, however after 5:00 a person would be required to use the RFID card as well as palm, finger-vein, visible light facial recognition, fingerprint, facial recognition and password. Multi-authentication during specific time zones.



## Programmable Supervised Input

- Auxiliary Input:

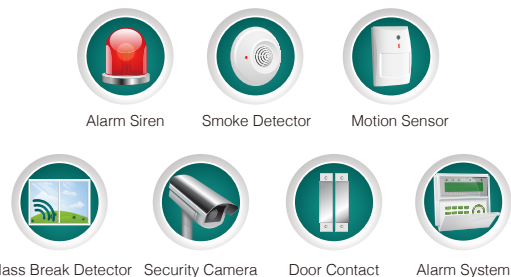
Used to connect to devices, such as, the infrared sensor or smoke sensor, exit button, contact sensor, door contact and intrusion alarm.

- Programmable Supervised Input

Equipped with programmable four state-monitoring inputs, which gradually avoids short circuit attacks. The system can detect abnormal changes below 5% Ohms in the circuit and filter out all possible attacks.

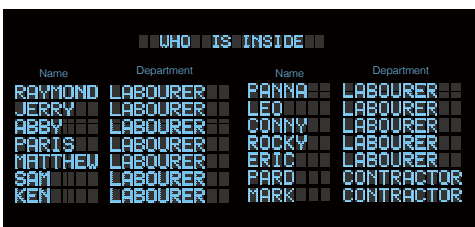
- Auxiliary Output:

Mainly connected to alarm, it is used when linkage is working, such as, burglar alarm, alarm, LED light, buzzer.



## Flexible and Editable Text Function for LED / LCD Display Panel

Armatura One provides a programmable LED / LCD display function to show real time and editable “who is inside” personnel information. It allows for users to generate reports showing where card holders are within a facility. As a card holder swipes he/she will be granted access to the area and his/her name and location will be simultaneously shown on the connected LCD screen.



LED / LCD display

to show who is inside the specific area

## Remote Lock-Down

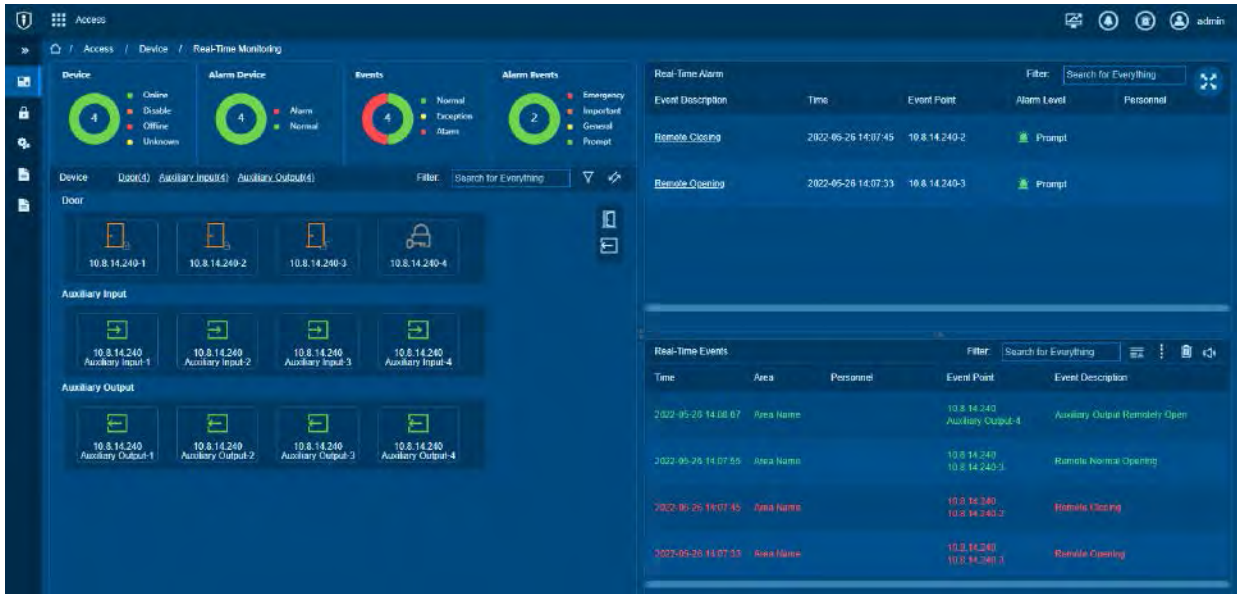
Administrators can remotely open/close and/or lock down all or selective doors on the system. When in ‘Lock-Down’ all access is overridden until lock down is deactivated.



When the “Active Lockdown” command is activated, all doors will be locked at the same time

## Real Time Monitoring

Armatura One enables users to monitor the entire system, real time, by showing all the detailed status, including any abnormal situation at a door with support of video linkage and photo capture pop-up when an abnormal security event occurs.



Icons	Status	Icons	Status
-------	--------	-------	--------

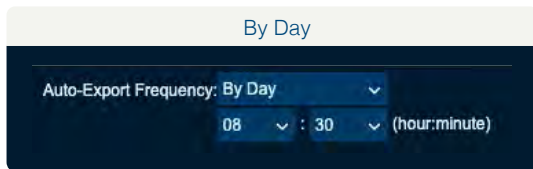
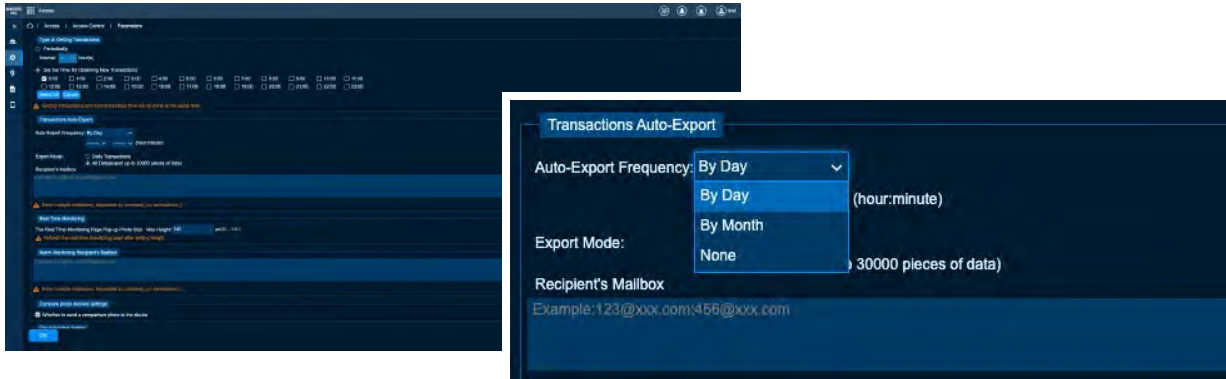
- |  |  |
|--|--|
|  | Device disabled  |
|  | Door sensor unset, Relay closed/ Without relay status                        |
|  | Online status Door closed, Relay closed/ Without relay status                |
|  | Online status Door opened, Relay closed/Without relay status                 |
|  | Door opened alarm; Relay closed  |
|  | Door opening timeout, Relay closed /Without relay status, Door Sensor Opened |
|  | Door opening timeout, Relay closed/ Door Sensor Closed                       |
|  | Door closed alarm, Relay closed/Without relay status                         |
|  | Door sensor unset, Door alarm, Relay closed                                  |

- |  |   |
|--|---|
|  | Door Offline  |
|  | Door sensor unset, Relay opened/ Without relay status         |
|  | Online status Door closed, Relay opened/ Without relay status |
|  | Online status Door opened, Relay opened/ Without relay status |
|  | Door opened alarm; Relay opened                               |
|  | Door opening timeout, Relay opened/ Without relay status      |
|  | Door opening timeout, Relay opened/ Door Sensor Closed        |
|  | Door closed alarm, Relay opened/ Without relay status         |
|  | Door sensor unset, Door alarm, Relay opened                   |

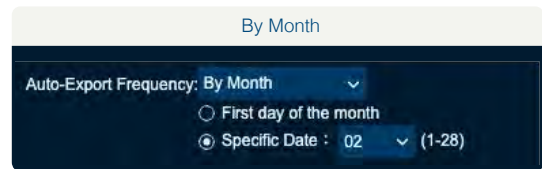


## Transaction Auto-Export

The auto export function now provide option to user to export your report and data by day or by month, thus the system of Armatura One will send out the daily and monthly report automatically.



By Day option:  
A daily report the admin will auto receive a daily report via email.

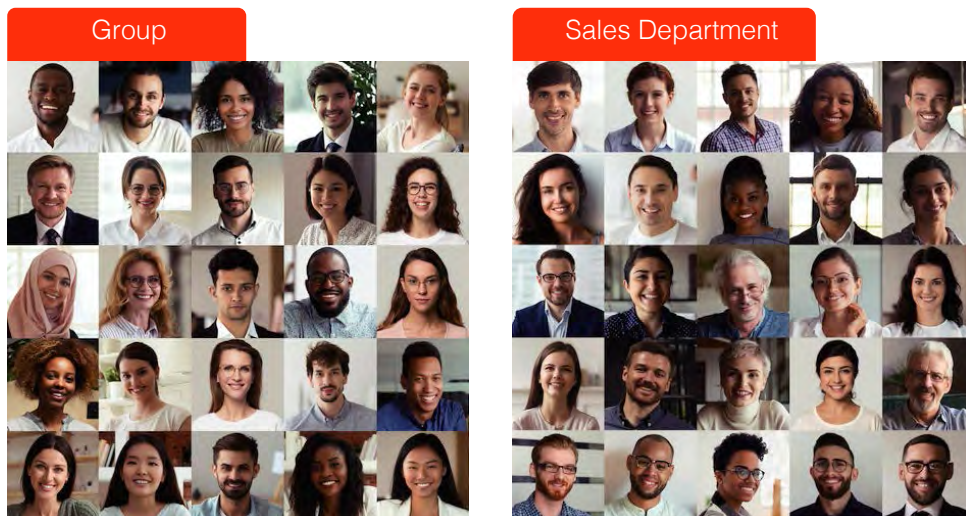


By Month option:  
User can choose either first day of the month or specific date to receive the monthly report.

## Custom Rule for Various Department


User can based on their need to develop their own “Group” or “Department” rules in the software of Armatura One. For example, sales people shouldn’t be in office anyway, they always leave office earlier as sales person always work outside to meet with their clients.

Admin can therefore make a custom rule to sales department for ignoring them the time checking of “late and early leave”.



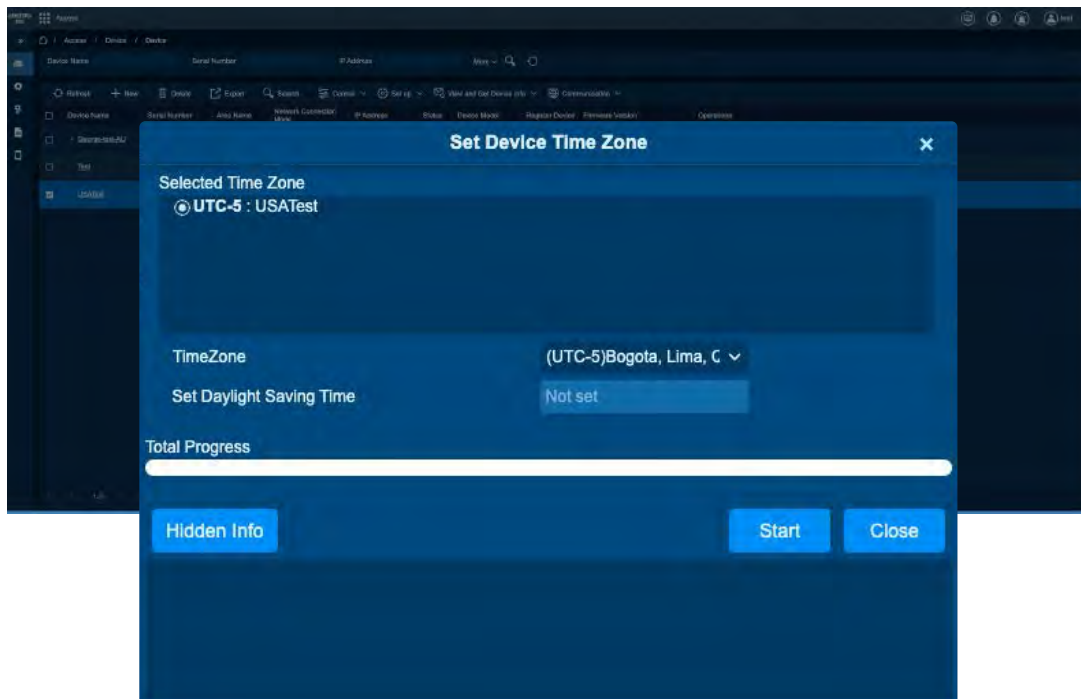
## Limited Entry by Access Level and Time Zone

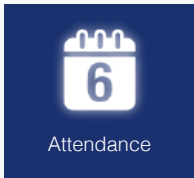
Armatura One is extremely flexible, allowing the administrator to schedule holidays, half-time days and special access for different access level. The access control can also be allocated based on time zones, floor levels, employees' designation or department. The admin will also get a notification if there is any unauthorized entry.

Weekday	Weekend	Holiday	Limited Access
			
Monday - Friday All Doors Open	Saturday - Sunday All Doors Closed	Public Holiday All Doors Closed	All Day Specified Door(s) Unlocked

## Supports Batch Management of Devices

The system supports batch management of device, including functional parameter setting firmware version upgrade and recovery. For example, for the first time of device matching, if shared parameter setting is needed in the same region, it enables batch setting for all selected devices, and the setting will be applied to all selected devices.





## Time & Attendance

As an "All in One" security platform, the Armatura One contains a web-based time & attendance module. Administrators can manage the Time & Attendance module from anywhere they have access to the Internet. Moreover, this is an powerful time & Attendance system, which can handle most of the complicated time & attendance circumstances, such as, flexible shifts, multi-level OT, cross day shift and online leave application with multi-level approval.

## Flexible Group Scheduling

Armatura One provides flexible group scheduling in the Time & Attendance module, providing users to group their employees, the entire company and individual departments with the same attendance rules. Users have the ability to set attendance parameters like check-in, check-out and overtime rules.



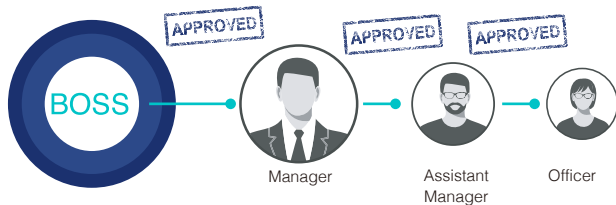
## Set Attendance by Area & Set Attendance by Person

Personnel Area Setting function is divided into "Area" and "Person".

- Area: Based on the area name to show all of the employee and staff's attendance information within the division.
- Person: Based on the employees and staff ID to display the attendance record.

## Multi-Level Approvals and Automatic E-mail Alerts

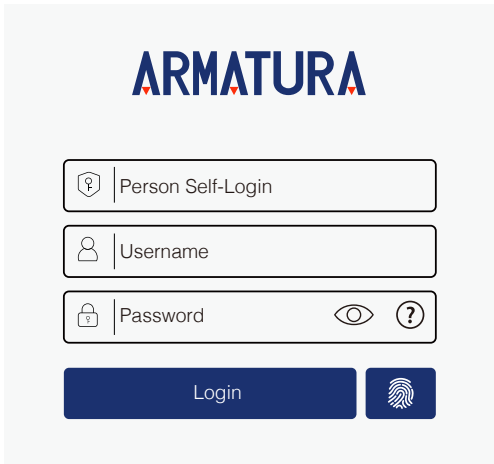
Leave, manual punches, overtime, schedule adjustment and other events can be applied through Armatura One platform, which will then be approved by multi-level approvers who are set by hierarchal level.



E-mail notifications about the application are sent to the authority to approve.

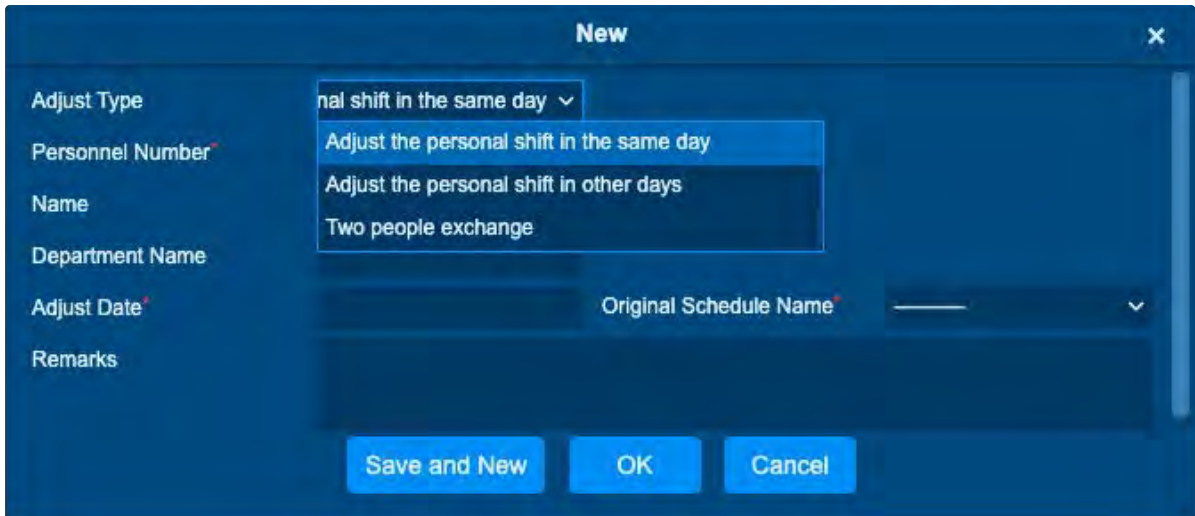
## Employee Self Log-In

Employee Self-Log-in is a cutting-edge function for employees to enter the server to perform job-related functions anywhere and anytime. An employee can up-date personal information, leave an application, submit and exception, including OT, manual punch-in, shift adjustment, etc., and request a self-report inquiry.



## Flexible Shift Scheduling

There are different T&A shift requirements in different industries, some of them are subject to chaos situation, such as, retail, F&B and patrol guard, a shift management with flexibility is essential for their operation management.



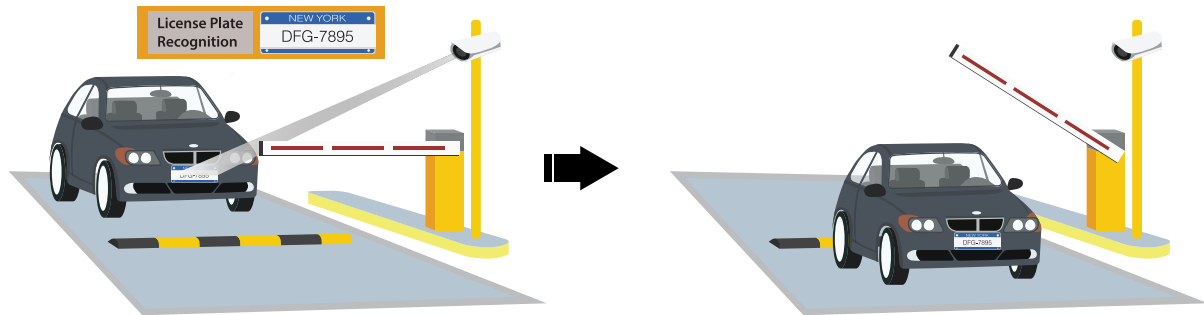
## Merge with 3rd Party HR Management System

In order to extend the Armatura One functionality, ERP and HR integration is possible by generating automatic data with custom attributes , such as, staff name, department, area, staff ID, etc.



## Access Control and LPR Attendance Tracking

Unlike most Time & Attendance systems on the market, Armatura One can link with the access control terminal and panel linked to the LPR (License Plate Reader) Terminal and retrieve records for time & attendance calculations.



LPR Camera scan the number on the license plate when vehicle is approaching its reading range.

Parking barrier is lifted once the verification is confirmed. Attendance recorded.

## Multi-Location

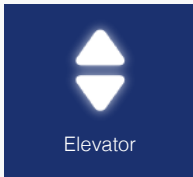
Users can access the centralized system anywhere by their web browser to remotely manage thousands of standalone terminals and controllers under wide area network (WAN)



USA Office

Australia Office

France Office



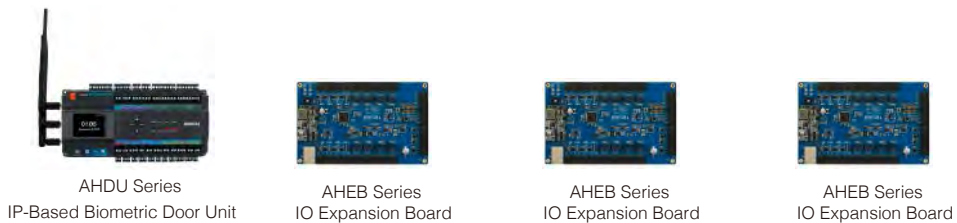
## Elevator

Elevator Control is designed to control the elevator access authentication, to manage personnel's access rights (using RFID card, Fingerprint, and other Biometric technologies) to different floors and supervise elevator events. Users may set registered user's right to floors and interact with the access control module to achieve the one stop management purpose. Only the authorized users can access to certain floors and doors within a period of time after being authenticated.

### Elevator floor level control

Solution 1: Armatura controller with IO expansion board

Armatura One has designed a unique function for elevator control, the EC10 panel and EX16 floor extension board, it provides customers the most secure, scalable, versatile and affordable access control solution available today for elevators.

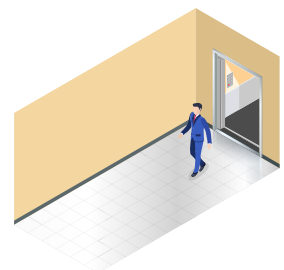


Solution 2: DCS Integration

(Support KONE, Mitsubishi, Hitachi, Schindler elevator)

Full integration with 3rd-party elevator destination control system, such as Hitachi, Kone, Mitsubishi and Schindler, improves energy efficiency and security level with smoother people flow.

### Destination Control System DCS Integration



Present a card or a QR Code or verify the identify by facial recognition at the entrance control point. The screen will display the assigned elevator number and the destination floor.

Enter the assigned elevator

The elevator will go to the destination floor

## Global Linkage

Elevator control supports the global linkage function to trigger events / alarms once condition fulfilled, such as, unregistered personnel, illegal time zone access, duress verification, etc. The photo capture and video recording also are the highlight of this function.



## Supports Building Management

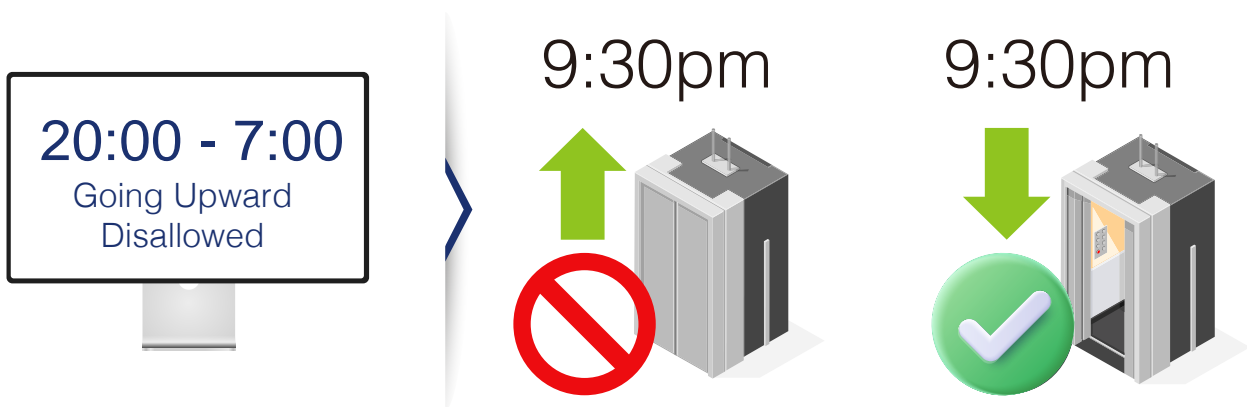
Enables customization of levels and starting level etc.

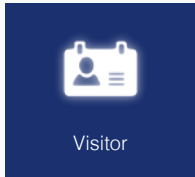
When add building, the floor will add the number of floors set by building and the corresponding floor information.

NEW	
Building Name	International Center
Area Name	Central
Floor Count	60
Floor Name Start At	L 30
Platform Name	International Center
<input type="button" value="Save and New"/> <input type="button" value="OK"/> <input type="button" value="Cancel"/>	

## Elevator Operation Limitation by Timeslots

The integration with Armatura's products also enables to limit elevators' operation in specific time. For actual implementation, if the elevator control is set to stop operating to go upward between 9:00 p.m. to 7:00 a.m., Unauthorized persons will only be allowed to go downward even with cards for floor access.



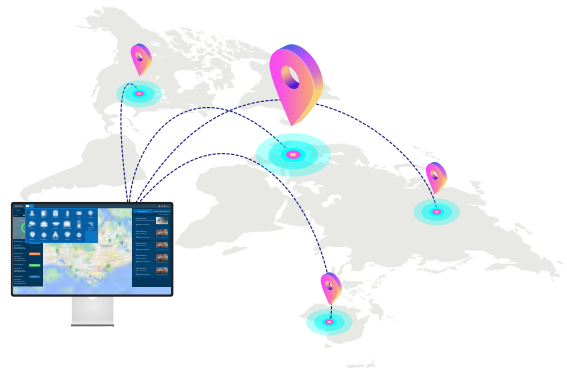


## Visitor Module

Visitor Module is a web-based management system that implements entry registration, exit registration, snapshot capturing, visitor quantity statistics, reservation management and shares information among registration sites. It is highly integrated with the access control system and elevator control system. It is generally used at reception desks and gates of enterprises to manage visitors.

## Multi-point Visitor Registration Management based on Web

Supports setting of visitor registration points, multi-point registration visitor management, and mutual sharing of a publicized management database.



## E-mail, WhatsApp, Line, Amazon SNS and SMS Notification Functions

During visitor registration, in case of overtime visits, visitor registration, overtime visitor registration, visitor checking out, monitoring lists, the system will deliver e-mail or SMS notification to visitors, recipients or managers in registration site. SMS and e-mail templates support customization, templates with different contents, delivery rules and recipients according to conditions can be customized. If it is set to deliver in day of visit, all notifications will be delivered to the specific recipients on specific time.



Email



WhatsApp



Line



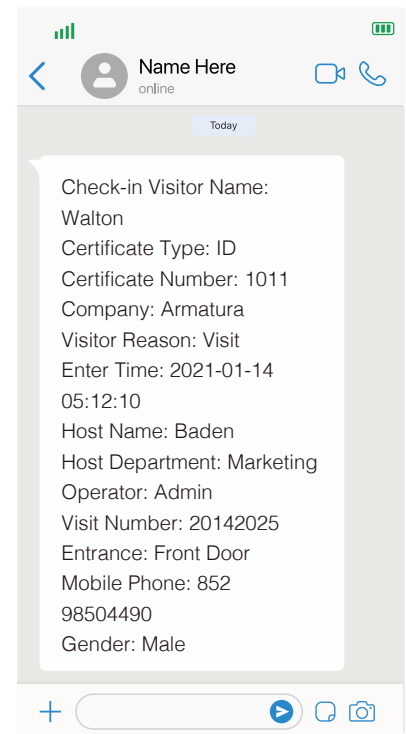
Amazon SNS



SMS



If there is an overtime visit, the system will deliver e-mail or SMS notification to visitors, recipients or managers in registration sites.





## Visitor Management

Invitation (optional): For invited visitors, they invited may click the hyperlink sent via email or SMS for self-registration. Upon arrival, if reservation is not made, visitors may have self-registration, swipe-code registration or manual registration in the front desk.

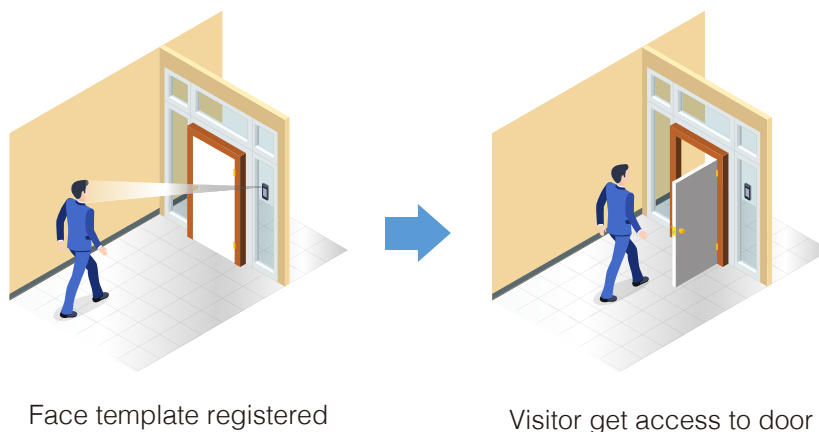
If reservation has already been made, visitors may swipe codes of faces for verification to obtain access. After registration of taking attendance, visitors' access right will be delivered to the devices, users may access upon successful verification in the authorized area devices of access control, elevator control and meeting rooms etc.

Finishing Visit: Over-time Automatic Sign-out, Verification and Sign-out in attendance points, and manual front desk sign-out



## Visitor Module Supports Visible Light Facial Recognition

Client can use the photo capture function in the visitor registration page to register visible light facial templates, and share with all Visible Light Facial Recognition Terminals.



## QR Code Safe Entry Solution for Staff and Visitors

Mobile QR Code Check-in enables both staffs and visitors to complete touchless check-in process, by utilizing their own mobile devices to scan QR codes for access of secured areas.

### Scramble QR Code for Better Security

In order to prevent unregistered people from gaining access by copying QR codes or barcodes without permission, the images of QR codes and barcodes in the URL can be set to dynamic (scramble), which means that the QR code images will be automatically changed in every 10 - 30s (adjustable). Administrators no longer need to generate new set of QR codes to update visitors' entry content anymore.



Automatically changed in every 10 - 30s (adjustable).



## Maximum Visitor Check

In order to provide a secure visitor management system for a number of visitors visiting the office building, Armatura One has a function of maximum number of visitor check. Once the number of visitors on the day reaches the default upper limit, prompt pop up will be delivered when Admin enters the registration page.



### Maximum visitor check

Open single-day maximum visitor visits monitoring

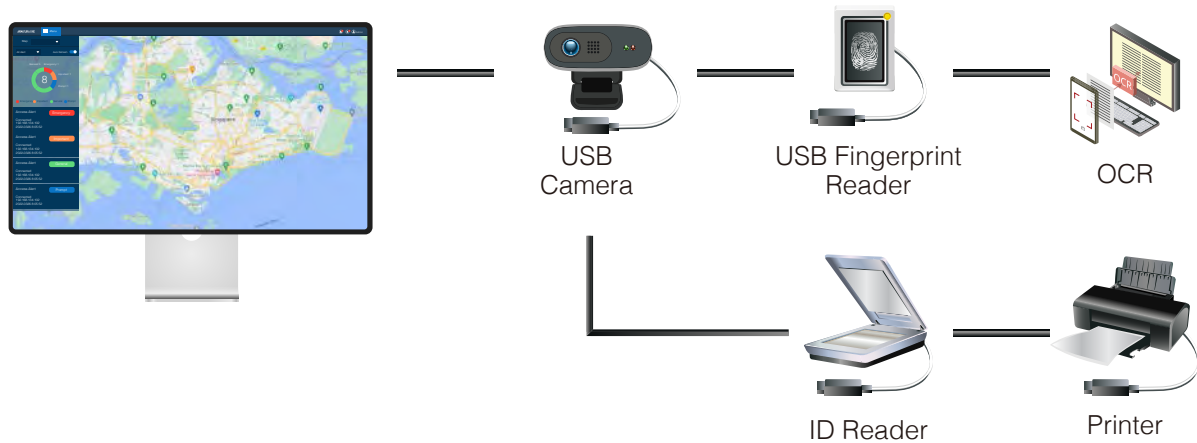
Maximum number of visits

Open single-day single-person maximum visitor visits monitoring

Maximum number of visits

## Integrated Device to Improve Visitor Registration Speed

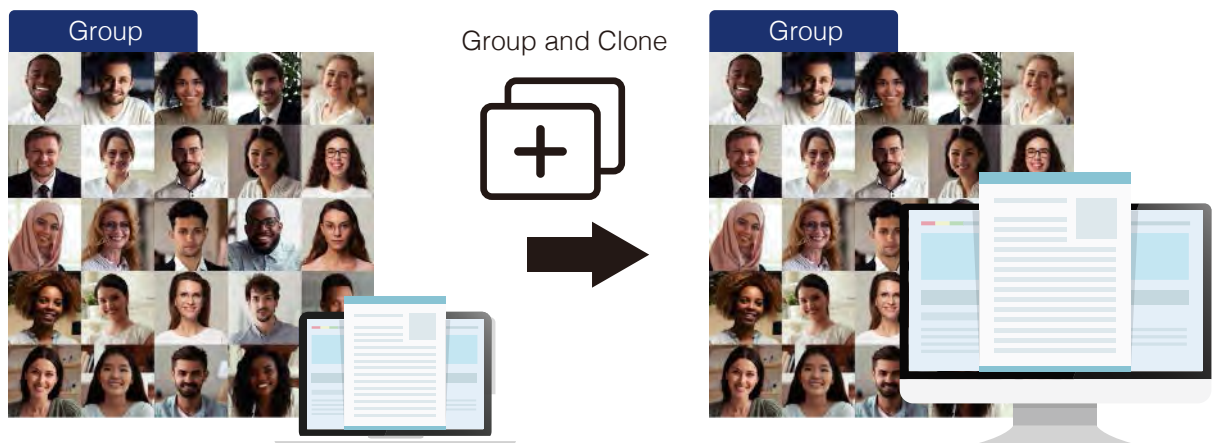
- OCR devices recognizes over 190 countries' passports and identity documents, and automatically fill in relevant visitor information.
- ID readers supports partial countries' identity documents, and automatically fill in relevant visitor information.
- Printers print visitor tags and visitors which are customizable.
- USB cameras and fingerprint readers quickly register visitors' fingerprints and faces.



## Grouping of Visitors and Duplication of Authorization Information

Supports visitor pre-registration in batch (through document import of visitor information), attendance in batch and sign out in batch.

Quick duplication of information including visitor authorization group, time and persons visited etc. for higher efficiency of the registration of re-visits.



## Add Watch List

Add to Watch List function helps to mark special visitors. such as VIP, block list user. The system will automatically prompt the visitor information and visit history when register the same visitor again.



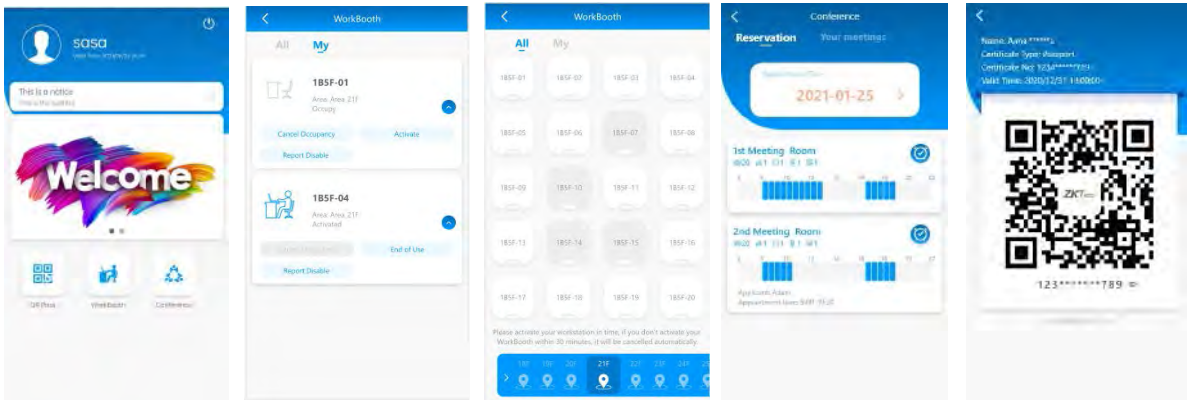
## Privacy Protection of Visitors' Data

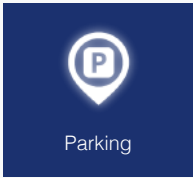
Supports customization of visitors' privacy agreement, relevant notification will be prompted upon visitors' registration.



## H5 Web Application for Visitor Use

With Mobile H5 on web browser, it is convenient for users to view the status of use of shared workspace and conference rooms and apply for reservation.



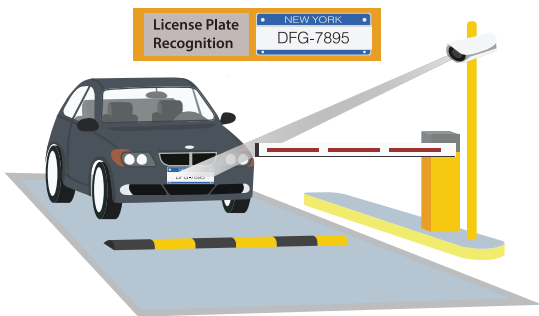


## Parking Management

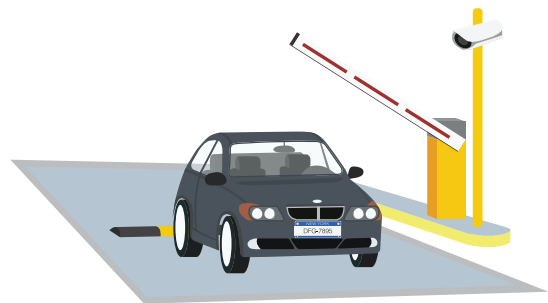
Automatic and intelligent vehicle management effectively and accurately monitors and manages vehicles at all exits and entrances via different criteria.

### Automatic License Plates Verification (With LPR camera, integrated LPR Car ID And Supports 80+ Countries LPR )

LPR technology is an application of computer video image recognition technology in license plate identification area. Its operation starts when the vehicle is located at the entrance of the parking lot, the LPR camera will scan on the license plate characters, and its recognition technology will identify the license plate number, color and other information. If the number on the license plate is valid, the car park barrier will lift for access, otherwise, no access will be allowed.



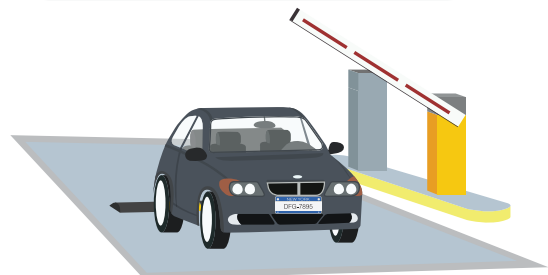
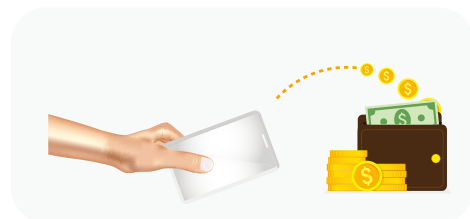
LPR Camera scans the number on the license plate when vehicle is approaching its reading range



Boom Barrier is lifted once the verification is confirmed

### Payment and Charge Management

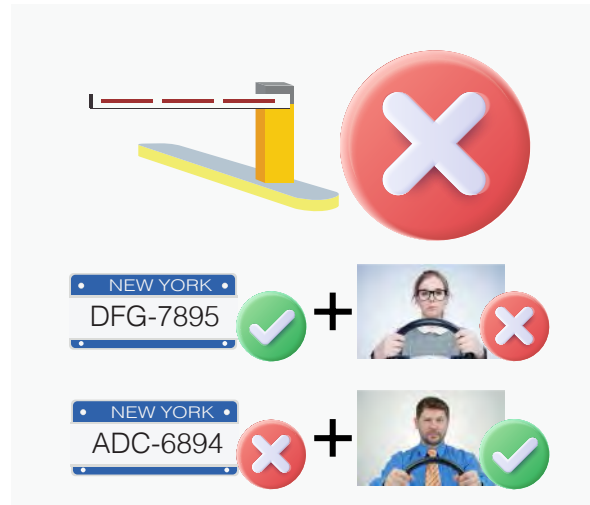
Armatura One offers an advanced option for users to pay on their parking when they are entering into the car park. Users may simply present cards at the entrance, and pay charges when leaving the car park.



COMING SOON

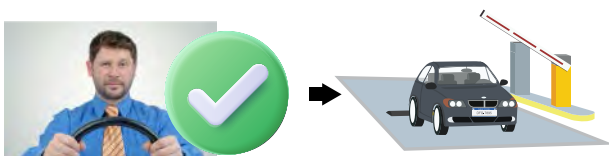
## Two-factor Authentication of Facial and Number Plate Registration

Two-factor authentication with facial recognition and license plate recognition enables extra security protection. The LPR camera scans and identifies license plates when a vehicle drives into the reading range. Then the system automatically searches the registered face image of the driver accordingly in the database for facial recognition. If both license plate number and facial recognition result match with the data in the database, the car park barrier will be lifted for access. If not, access will be denied.



## Supports Parking Offline Mode

Offline mode refers to that the LPR terminal itself can save templates and finish the authorization process even in offline environment, the LPR system can still operate smoothly and fine. Meanwhile, under the offline environment, the templates and data cannot be updated.

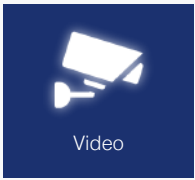


People and vehicle can get access without network

## Real Time Parking Lot Monitoring

It provides an additional function for administrators to have a real time monitoring in the monitor room, you can check video images and entrance and exit information of all guard booths in all parking lots.



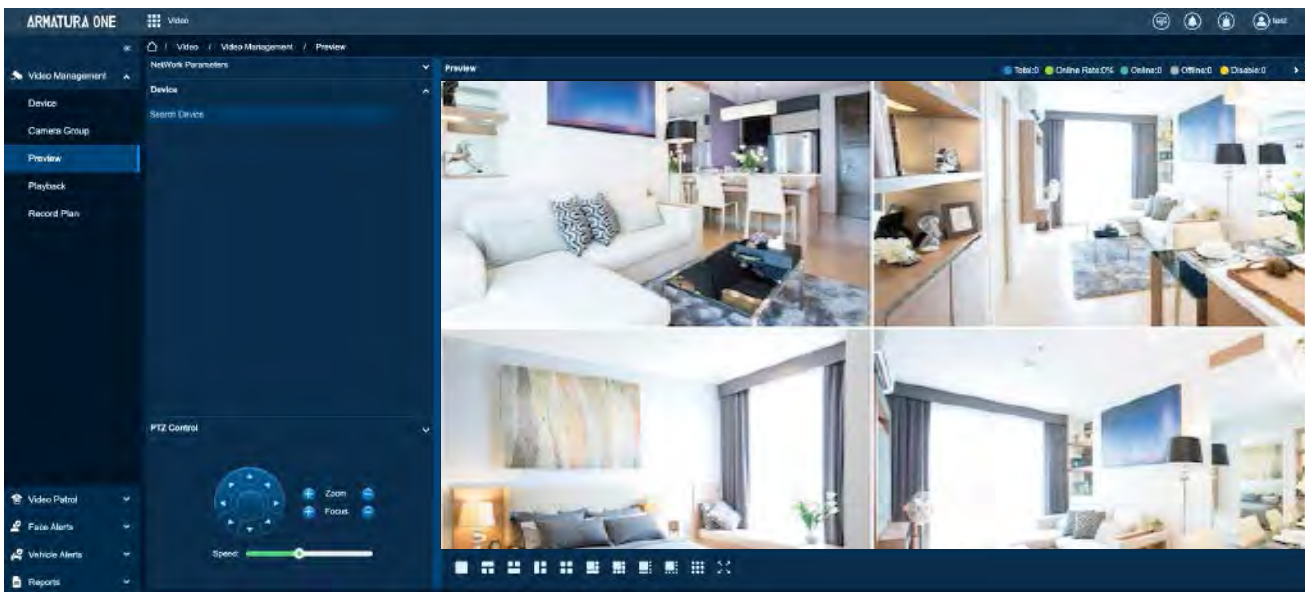


## Video Management System

Video Management System (VMS) is fully integrated with Armatura One and 3rd-party video surveillance system, such as milestone Xprotect, Huawei, with most of the intelligent video functions including object detection, area detection and line crossing alert can easily be applied to access control system.

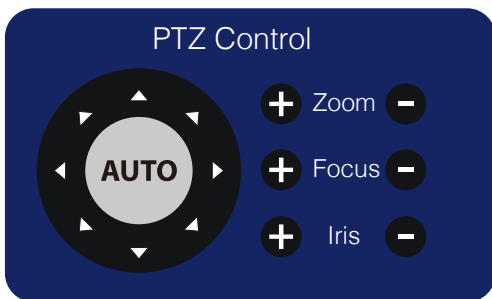
### Supports up to 10,000+ Cameras with H.265 High compression format

Armatura One video management system supports up to 128 cameras per server with multiple video servers controlled by viewing client. It supports the standard of H.265 / H.264 high profile compression format that users can get a high-quality video at much lower bit rate.



### Supports PTZ operation

The Software enables PTZ (pan-tilt-zoom) control of IP camera that is capable of remote directional and zoom control, and fine adjustment of center position of camera. Also, zoom control, iris level adjustment and PTZ movement speed adjustment is also enabled to enhance both security and convenience level.



## Facial Recognition

Armatura One is powered by Artificial Intelligence (AI), and work with the latest Armatura facial recognition NVR. It provides face recognition functions to users including allowlist, blocklist control and people tracking function.

### Allow List and Block List real-time monitoring

#### Allow List

Armatura One not only allows Admin to create allow list and rules for people who can go through whatever gate, but also gives Admin notifications when they arrive at specific areas.



For example, for VIPs and boss, you can do this with the allowlist notification system via Armatura One, by just simply uploading their images in the system, once they arrive at the surveillance area, they will be detected and notifications will pop up and appear on screen.

#### Block List

The Blocklist helps admin to screen and reject people to go through the gate, and also if those people are blocklisted, once they arrive the surveillance area, alert message will pop on screen.



For example, if a visitor is blocklisted , he or she thus will be disallowed to enter the building, admin will also be notified through the system of Armatura One.

## Supports ONVIF

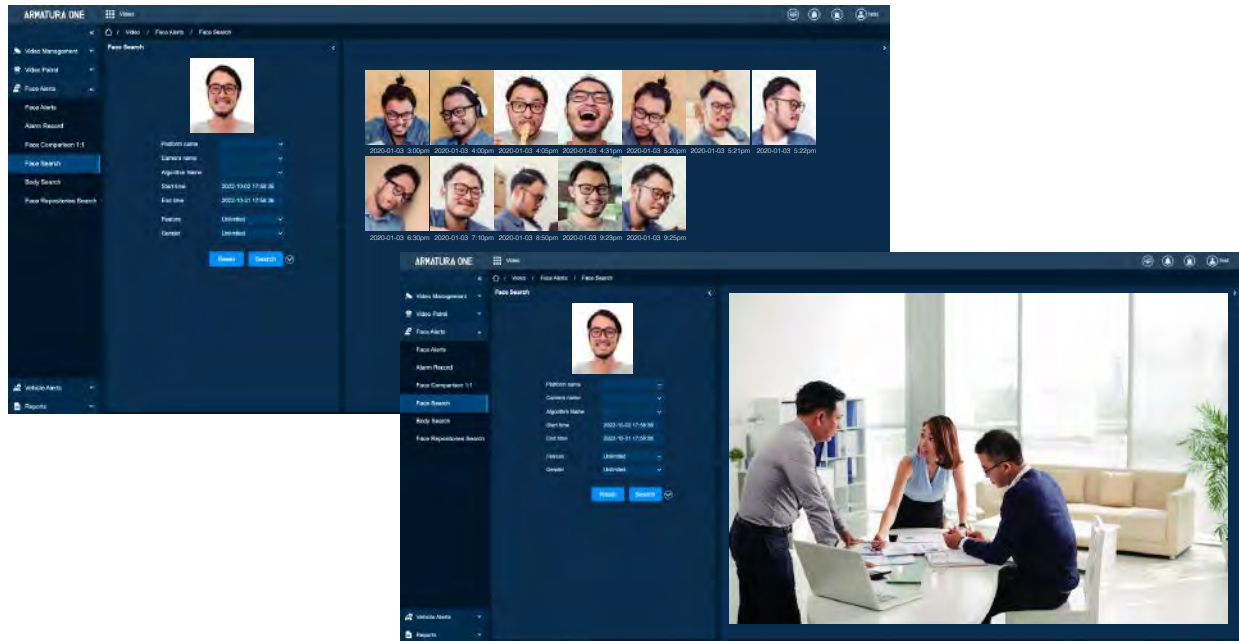
ONVIF is an open industry standardized interface for IP-based physical security products, Armatura One uses ONVIF for most of the 3rd party cameras and NVRs integration to enlarge its extension ability.





## People Tracking by Image Detection

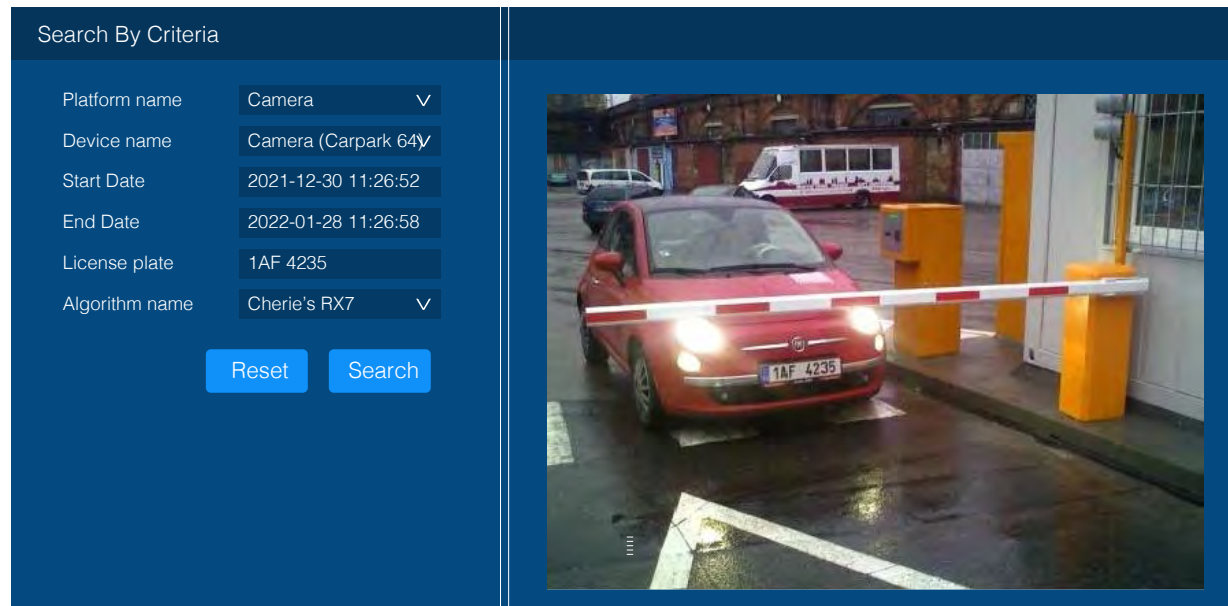
Armatura One reads images, has an ability to identify human faces and form a fundamental face characteristics analysis, and match them in database. Admin may just simply go to the image section and upload images, the system will therefore use the provided images to match images and video information in recorded footage.



Footage with the match image found

## Vehicle Recognition

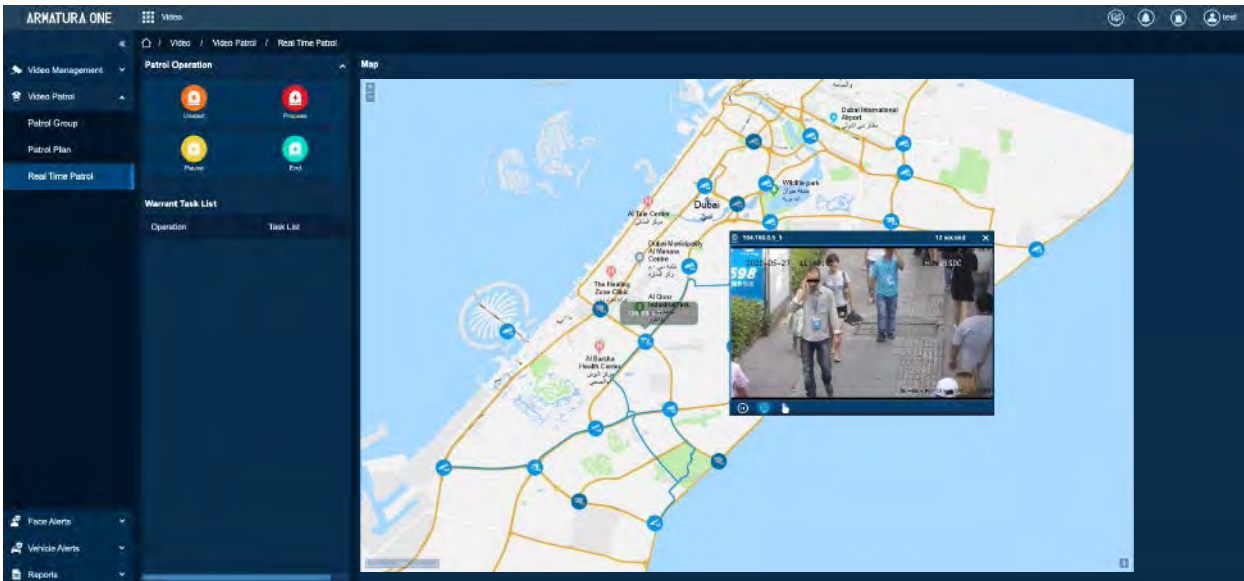
Vehicle Recognition is an advanced technology which automatically and quickly recognizes vehicles' license numbers, thus enabling administrators to easily search the registered owners of the cars within the period.

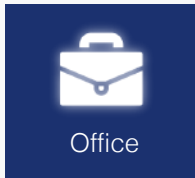


## Video Patrol

Video Patrol is enabled with online view from the cameras for real-time surveillance patrol. Patrol group can be created for specific patrol staffs, timeslots of patrol, patrol devices and patrol plans. Patrol staffs may log on to the system and preview their patrol via real-time video surveillance and report events of abnormality for manual alarm and patrol.

The system enables automatic generation of patrol reports for management staffs' review of the patrol.





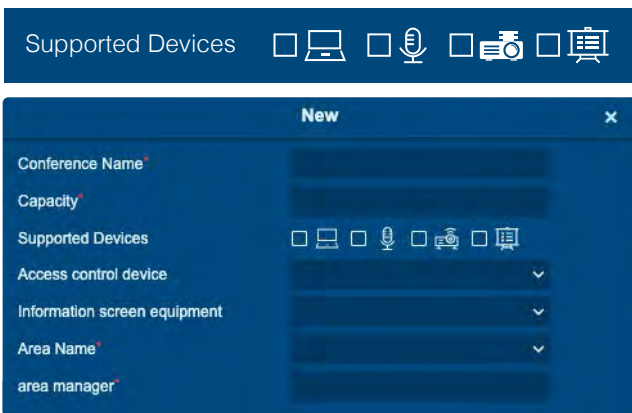
## Office

Armatura Office module combines modern Meeting Room and Shared Work Booth reservation systems to enable efficient reservation management. With the module, users are enabled to generate QR codes and share to their guests for access, making simple yet effective access control.

## Meeting Room Reservation

The function of meeting room reservation allows you to book any meeting room on the display of the reservation section. User can choose to book any available room in the facility management by the start time and end time, suitable for their needs quickly and easily through the web browser.

Users may make simple and easy reservation of meeting rooms in the reservation section, by selecting available meeting rooms and the start time and end time of booking sessions via web browser.



## Room Devices Overview

Administrators may select to show the devices available in a particular meeting room for users to have an overview, including:

- 1) Computers
- 2) Microphones
- 3) Projectors
- 4) Interactive Whiteboards

## Shared Work Booth Reservation

Reservation can be processed easily online anytime, by only selecting date and timeslot of any available desk in the reservation system.



Users may make simple and easy reservation of shared work booth in the reservation section, by selecting available booths and the start time and end time of booking sessions via web browser.

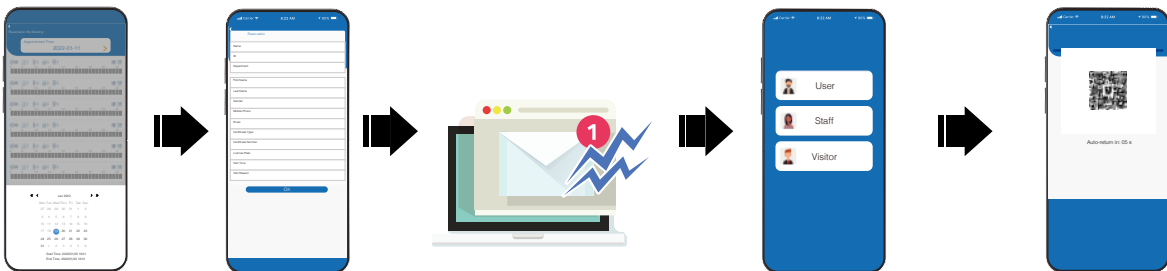
## Auto-Cancellation of Reservation

By activating the auto-cancellation function, in case a desk has not been used for 30 minutes from the destined time of reservation, the reservation will be automatically cancelled and released back availability of use.



## Combing QR Code in Booking System

By combining room management and QR code function, Armatura One provides users a simple method to authorize access to their guests and visitors by generating accounts and QR codes for their access to specific areas.



Reserves a room or a shared work booth for a person on a destined date and time

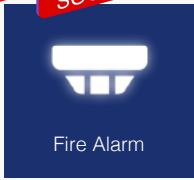
Fill in the select participants' personal information

The relevant reservation details and meeting schedule will be delivered to the person via email

With the email, the person may log into the portal

The person only needs to scan the given QR Code to enter the meeting room or work booth accordingly

COMING SOON



## Fire Alarm

Armatura Fire Alarm Module is an integrated system of fire alarm management system which is integrated with 3rd Party Fire Alarm, and also supports other 3rd party systems for various kinds of alarm devices. With convenient E-map and various monitoring functions, the system offers you an optimal security with high cost-effectiveness and performance.

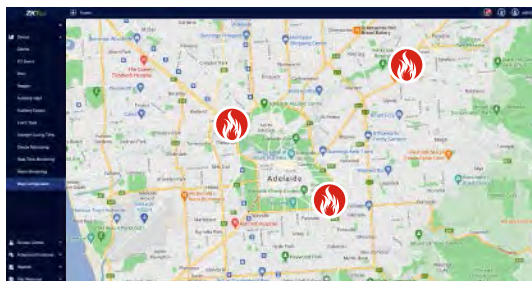
### Supports 3rd Party Fire Alarm System

The module is fully integrated with 3rd Party Fire Alarm system, and is also able to integrate with other third-party fire alarm systems, supported devices include heat detector, smoke detector and PIR sensor.



### Add, Remove and Display Fire Alarm on E-Map

Easy to create, edit, delete, and preview e-map that display the locations of the fire alarms. Users are also enabled to use Google and SuperMap GIS for the e-map.

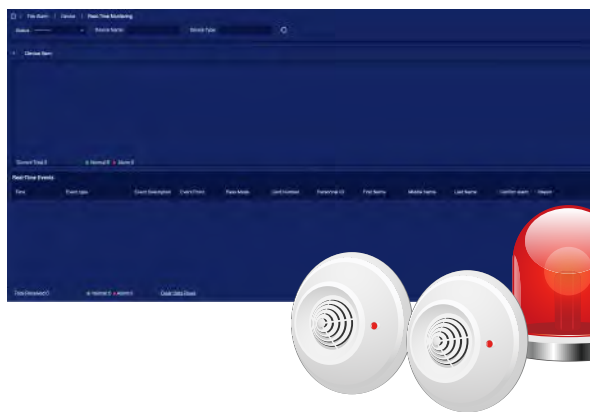


## Alarm Linkage and Notification

Supports linkage with email notification in case of emergency, the user access control system can automatically and quickly respond in case any fire alarm is triggered.

## Real Time and Alarm Status Monitoring

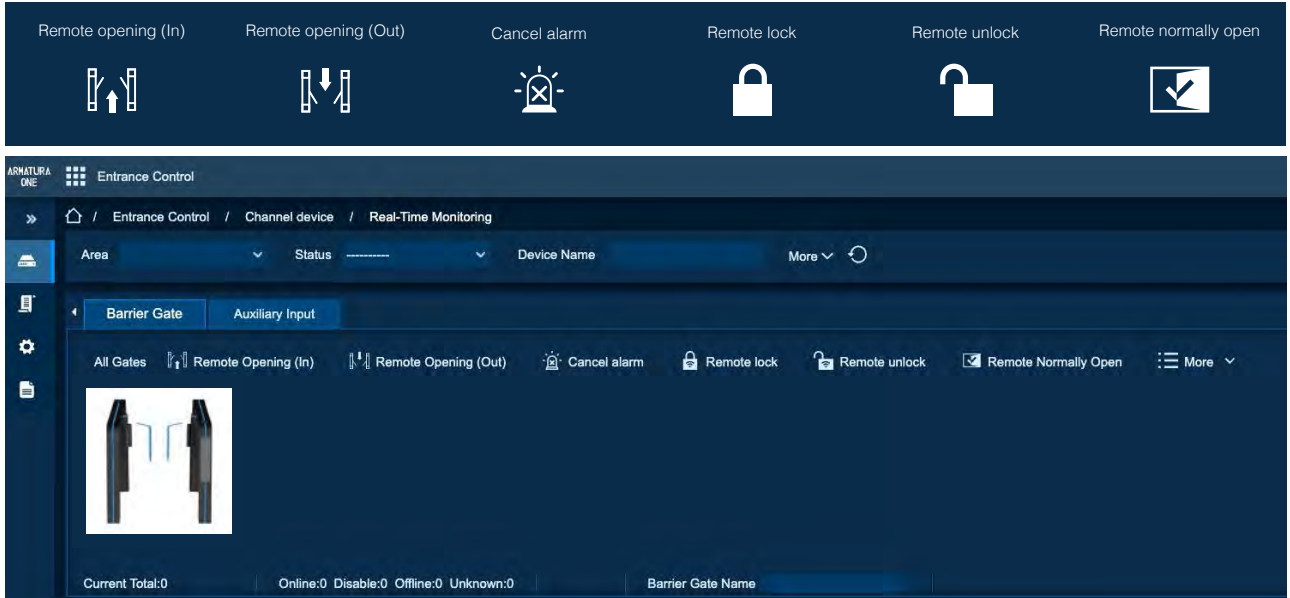
Armatura One can be accessed anytime and anywhere on a web browser for remote management of fire alarm and numerous devices all over the world.



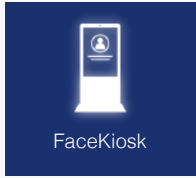


## Real-Time Monitoring

The system enables dynamic image display of barriers' status, supports remote barrier opening, remote activation of always-open timeslot, remote cancellation of alarm, and quick view of recent events of barriers







## FaceKiosk

By supporting third-party kiosk devices, Armatura One offers convenient face recognition solution for various applications which effectively manages time & attendance with kiosk devices, and enables user-friendly attendance details display and advertisement display, for enhanced cost-effectiveness and preciseness of time & attendance management.

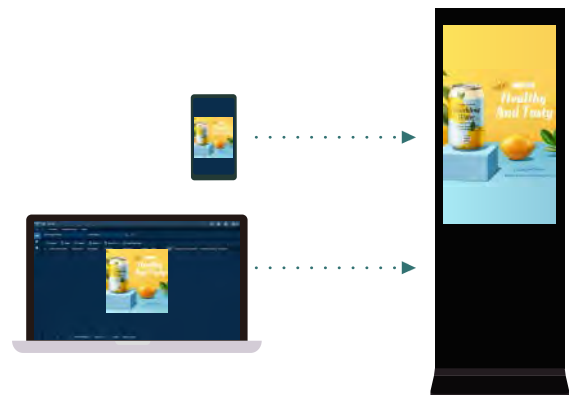
## Managing Third Party's Kiosk Devices

Armatura One supports management of third-party kiosk devices for face recognition applications to a wide variety of scenes, which efficiently manage kiosk devices for time & attendance and kiosk advertisement functions.



## Kiosk Advertisement Management

Third-party kiosks can be utilized effectively for marketing, as Armatura One enables uploading and management of advertisement images and videos with an access to the Internet.



## Attendance Details Display by Area or by Staff

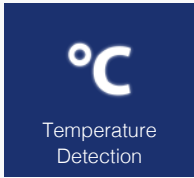
Area: Displays staffs' attendance information according to areas.

Person: Displays particular staffs' identities and their attendance records.

## Time and Attendance Management with Kiosk Devices

Armatura One supports visible light face recognition devices. Upon staffs' facing towards the Kiosk devices, their attendance will be accurately recorded for the monitoring and management of employees' attendance, including working hour, late arrivals, early punch outs, break hours and absence.



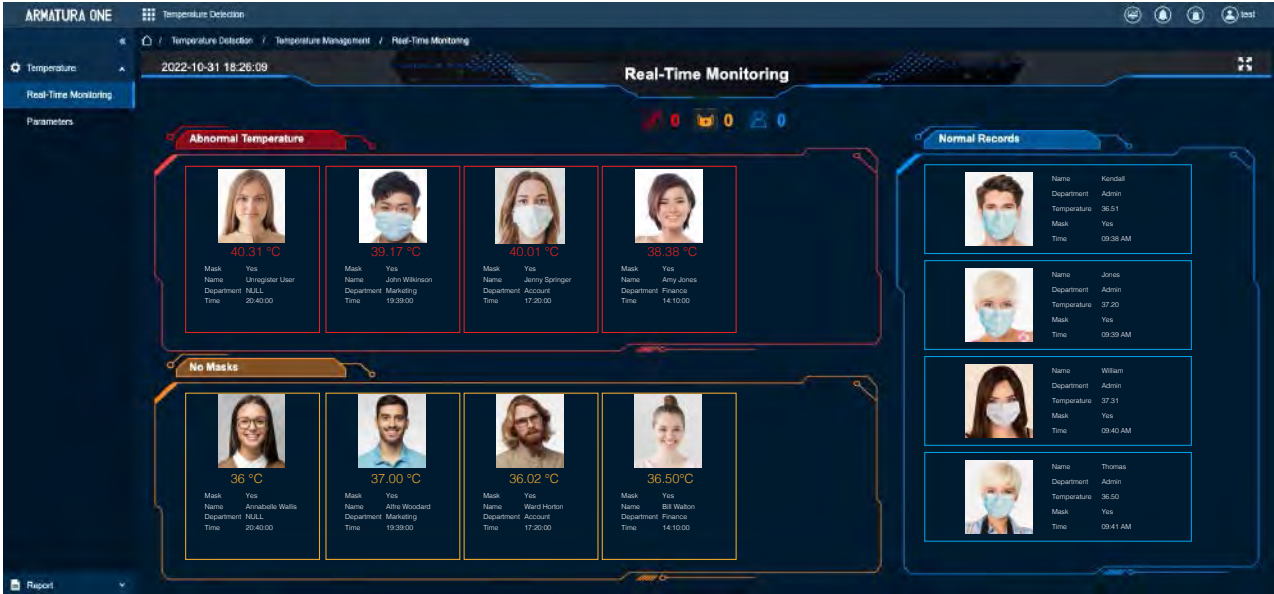


## Temperature Detection Module

Armatura One is able to provide accurate and fast temperature detection during verification. It offers responsive, intuitive and user-friendly web application and various reports for body temperature and Mask detection devices.

### Real-time monitoring

Real-time monitoring provides clearly visualized interface to detect all staffs or visitors' body temperature and masks with verification records in thermal detection devices.

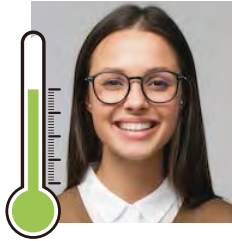
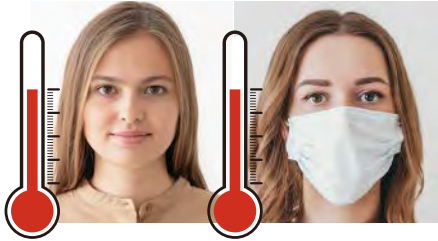


There are 3 categories of records that are displayed on the monitoring page:

People with abnormal temperature (unmasked or unmasked)

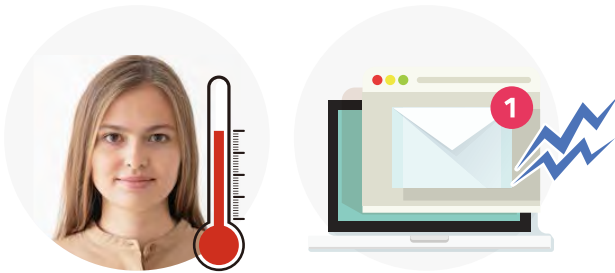
People unmasked

People with normal temperature



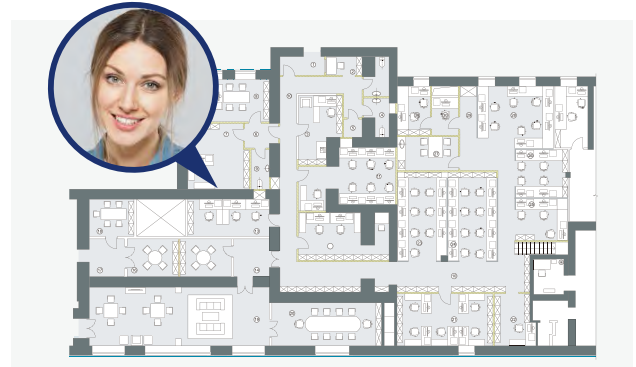
## Abnormal temperature Alarm Notification

Alarm and notification message will be sent to admin. staffs in case abnormal temperature of any visitor and employee is detected. Notification message will be displayed indicating temperature exceeding limit.



## Personnel Track Trace

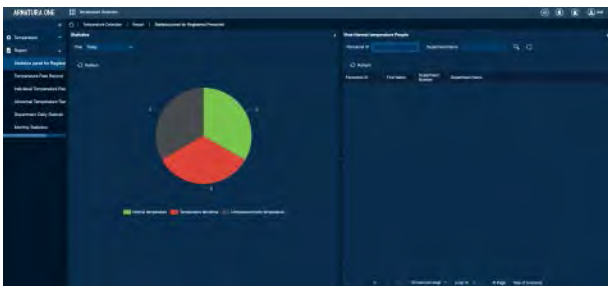
According to the time sequence, the Personnel photos captured by the different cameras will be displayed on the 2D maps to simulate personnel tracking.



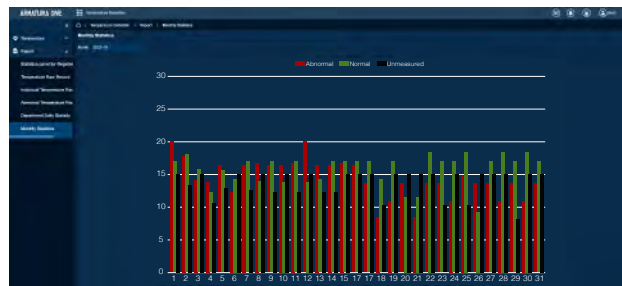
## Statistic Panel and monthly statistics

Statistic panel helps the user to view body temperature of all staffs. It allows the administrator to check the every day's statistics, weekly and monthly statistics.

The infographic displays the statistics of abnormal, normal, and unmeasured temperature records of the month.



Statistic Panel



Monthly Statistics

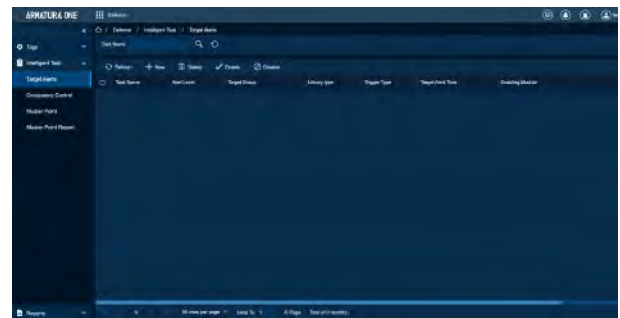


## Defence

Defence module is a scenario-based defence mechanism which offers both capacity control and access control with high security and convenience. It detects human faces, counts numbers of access and exit, verifies and tracks people for optimal access control solution with ultimate efficiency and safety.

## Global Target Control

Introduction of the Function: Global Target Control extends the control of people from video surveillance devices for facial recognition to the full-module devices. It enables devices of access control, time & attendance, elevator control and parking management for system target control, providing new sources for alarm while remaining the functions of the existing devices in various modules.

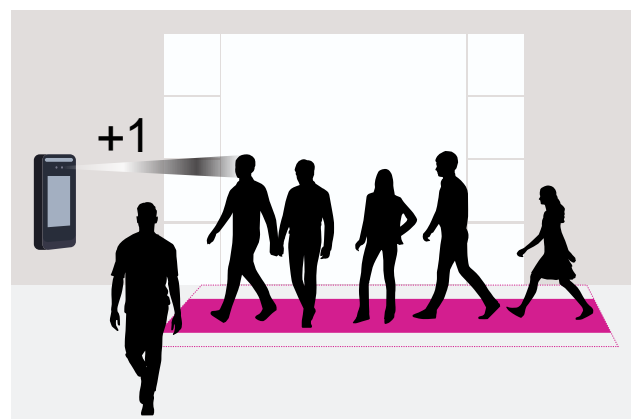


### Features:

1. Inter-module actualization including access control, time & attendance, elevator control, parking management, visitor management, and information display devices
2. Supports hit alarm and missed alarm
3. Supports customizations of 4 kinds of events including Emergency, Important, General, and Prompt
4. All control alarm records are displayed in the alarm center, and can be processed and handled smoothly in the alarm center

## People Counting

The system combines facial recognition and people counting functions for both access control and capacity control. The system is able to detect human faces who pass by specific areas, and automatically counts the total number of the people in the areas and display the figures in Armatura One live view.



## Occupancy Management

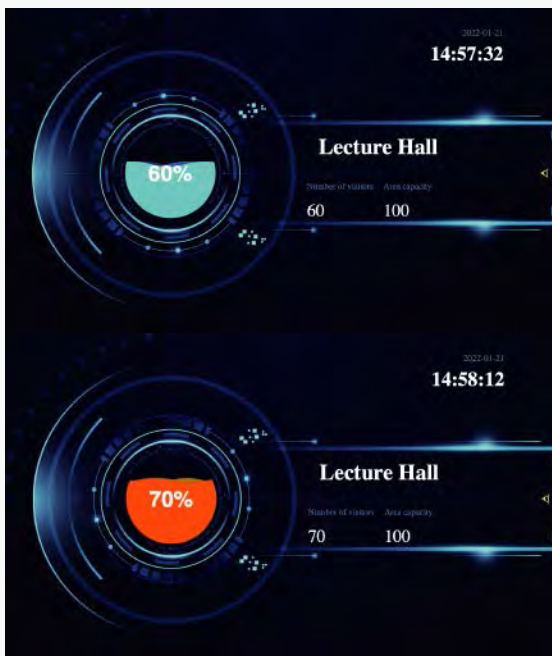
Armatura One can assist with decision to help control the visitor flow with a pre-set maximum capacity. Keep track of how many people go in and out of your venue and share your real time occupancy.

Armatura One effectively controls the visitor capacity by enabling the setting of maximum capacity. With the people counting function, the system automatically receives the number of the access and exit of people of specific areas and the real-time occupancy.



### Below Limitation (Access Allowed)

Once a maximum number of people is set, the system shows the occupancy rate of people in percentage and colors indicating different rates, blue color represents 0% to 69%, orange color represents 70% to 89%, and red color represents 90% to 100%.



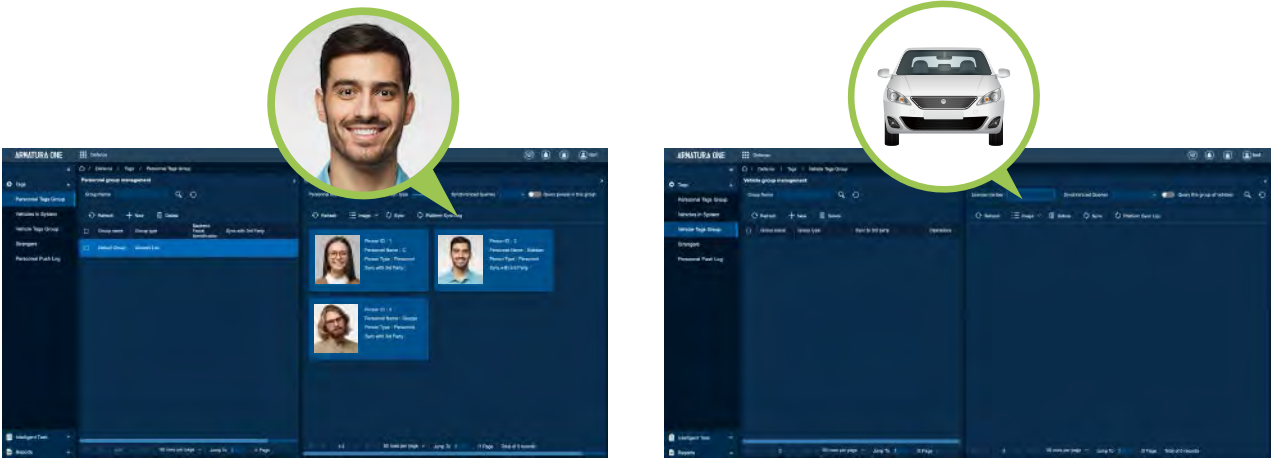
### Exceeding Limitation (Access Disallowed)

Once the red color is shown, it indicates that the occupancy nearly reaches the limit of capacity. Once the occupancy rate reaches 100%, people will not be allowed to access the specific areas.



## Real Time Tracking Access Control Solution

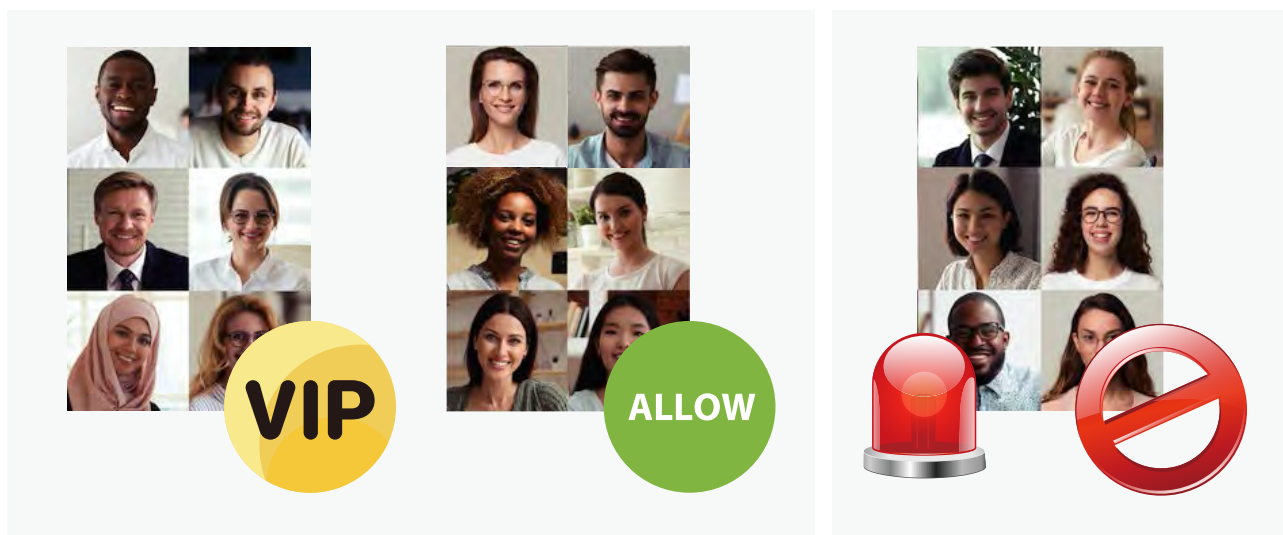
Armatura One combines cutting-edge technologies including facial recognition access control, time attendance, video surveillance and LPR to provide precise positioning information to track people in real time.

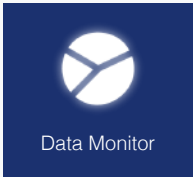


Once a visitor enters a specific area, Armatura One automatically tracks visitors and obtains their entire routes.

## Allow List, Block List and VIP List

With precise facial recognition and tracking functions, the system is able to effectively monitor, verify and categorize people in allow list, block list and VIP list. It offers facility administrators convenience and security for access control management.





## Data Monitor

Armatura Data Monitor Module is a comprehensive management tool for access control, visitor management, office, personnel video and system, users may have clear and complete overview of all information, trends and statistics for efficient and convenient monitoring and administration.

## Global Alarm Dashboard

Global alarm dashboard enables administrators to view every alarm's trend, type, device status and alarm data. It also enables display of the alarm type statistics of "Access Alert", "Face Alert", and "Vehicle" records of the month.



## Data Monitor Platform

Data monitor platform is a real time summary of the module data to show the information of Access control, Visitor, Office, Personnel, Video and System, providing a clear way to see and understand trends and pattern in data that reflect the reality.

Access Control:

- Overview of Device Type Statistics, Regional Equipment Statistics, Module in Use, Door Event Statistics
- Access Charts of both normal event and abnormal events



## Visitor:

- Overview of Reservation Statistics, Visitor Statistics and Check-out Statistics
- Visitor Charts of both number of appointments and visitor statistics



## Office:

- Overview of Conference Reservation Statistics, Workstation Usage and Admin Processing Statistics
- Workstation Event Chart of the conference room use rate and conference room reservation statistics





Personnel:

- Overview of Employee Statistics, Department and Personnel Statistics and Number of Personnel in Control
- Personnel charts of the expiring personnel and the number of position statistics



Video:

- Overview of Regional Device Statistics and Statistics of Patrol Times
- Video Charts of the personnel hit alert statistics and personnel non-hit alert statistics



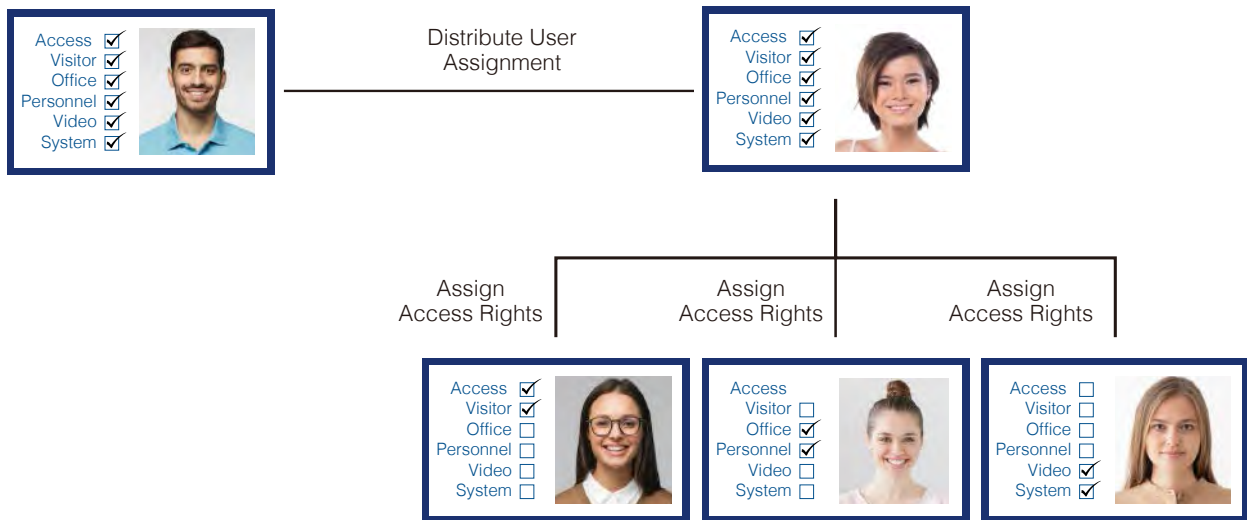
System:

- Overview of Area Statistics, "Role Statistics and User Statistics
- System Charts of the mail delivery status and the top 5 mail subjects



## Dashboard Access by Role

Administrators can assign their team member roles with various accounts for limited access to view different dashboard features, so they can complete tasks by allowing only enough access for the required tasks.





## Building Automation

Building automation control uses computerized centralized control, which centralizes decentralized control for centralized management. Its decentralized controller usually adopts direct digital controller (DDC), which uses computer for monitoring and management of the screen. Building automation is composed of several systems including: air conditioning HVAC and ventilation monitoring system, water supply and drainage monitoring system, lighting monitoring system, power supply monitoring system, and structured integrated wiring system, and dynamic environmental monitoring system, with the aim of improving occupant comfort, efficient operation of building systems, reducing energy consumption, and operating costs as well as improving the service life of utilities.

## Monitoring and Management Quick Response and Handling of Problems

Building Management System is a multi-dimensional management system for specific scenarios like buildings, factories and parks. The System supports Armatura Gateway, and is enabled with access to standard building protocols including BACnet, Modbus and OPC etc., actualizing monitoring and management of subsystems including HVAC, lighting, electricity supply, water supply and drainage, and environment monitoring etc. By focusing on the monitoring of subsystems, maps and device attributes, multi-dimensional and quick response and handling of problems can be achieved.

🏠 / Building Automation / Device / Terminal

### Terminal management

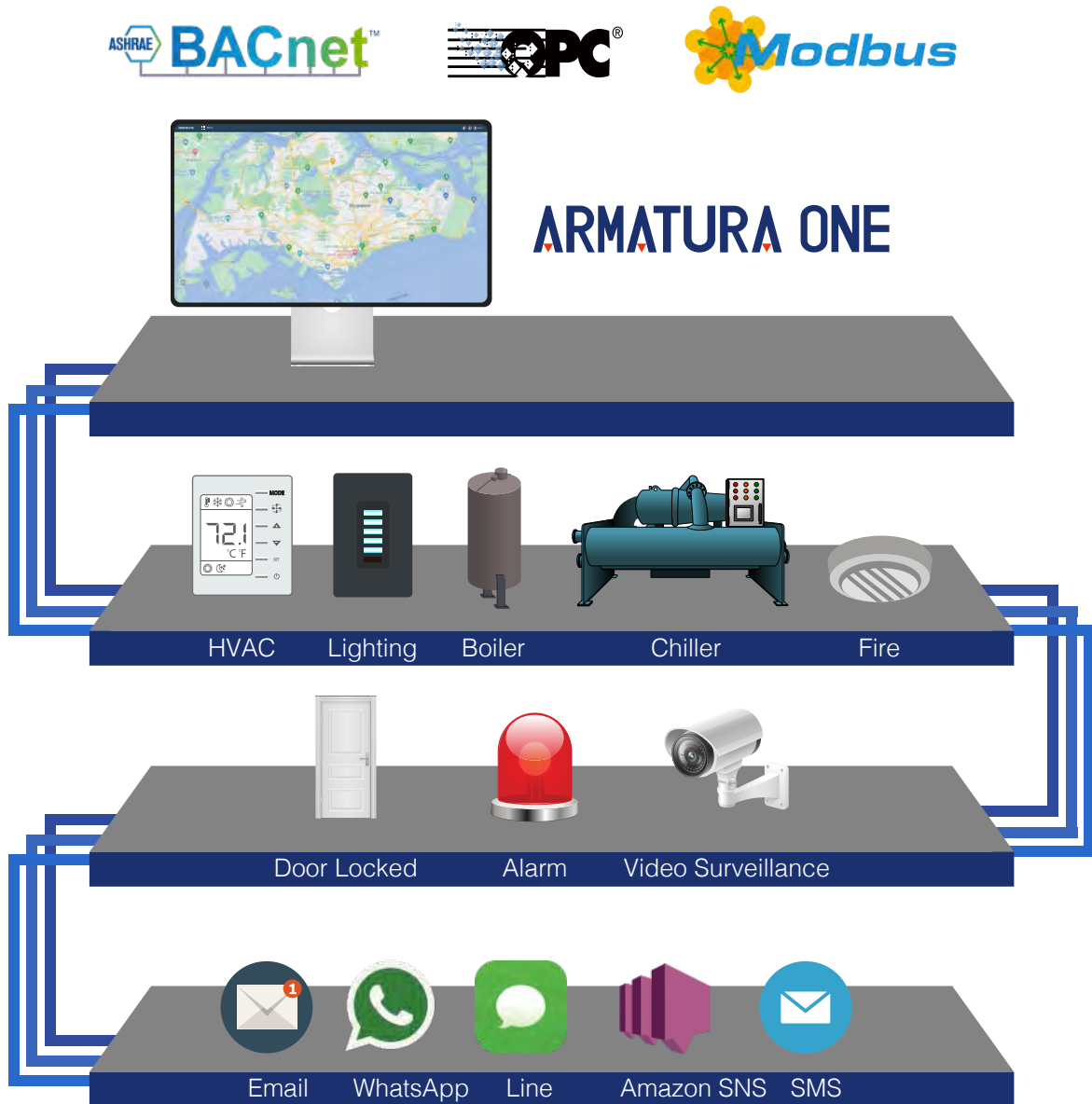
Terminal name	Terminal code	Gateway name	Subsystem
<input type="checkbox"/> 霍尼SPC.Ch2.C...	霍尼SPC.Ch2.C...	Xunrao	HVAC
<input type="checkbox"/> 江森温控器.Ch1...	江森温控器.Ch1...	Xunrao	HVAC
<input type="checkbox"/> modbus_Ch3.BM...	modbus.Ch3.BM...	Xunrao	HVAC
<input type="checkbox"/> modbus_Ch4.BM...	modbus.Ch4.BM...	Xunrao	HVAC

### Terminal management

Attribute Name	Attribute Code	Data Type	Writable	Current Value
CLG_ONLY	CLG_ONLY	Boolean	✖	false
EFF_ZNT	EFF_ZNT	Float	✖	27.642
ERROR	ERROR	Integer	✖	1
FAN_S	FAN_S	Integer	✖	3
LC_PWR_PRI	LC_PWR_PRI	Integer	✖	1
OCC_S	OCC_S	Integer	✖	2
OPR_MODE	OPR_MODE	Integer	✖	3
POWER	POWER	Boolean	✖	true
ZN_SP	ZN_SP	Float	✖	28.0

## Rules Center

Rules Center enables flexible setting of rules with a single or multiple triggering conditions for a systematic event for alarm to the monitoring center and quick positioning and relevant video surveillance of the triggered event. It also supports multiple channels like WhatsApp, Line, AWS and SNS etc. for notifications, and applications to special scenarios, for example, fire alarm triggering door unlocking. Also, it enables control of subsystems including temperature control, wind speed and lighting control etc.



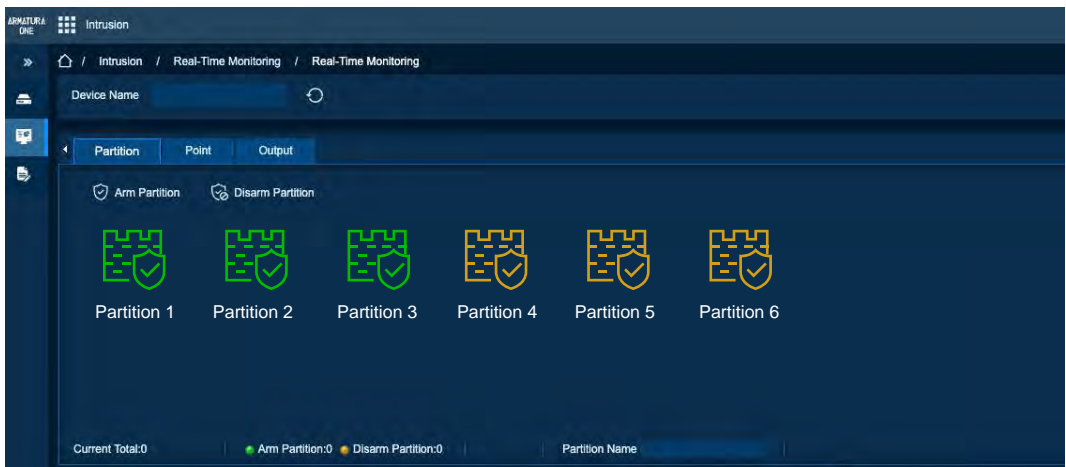


## Intrusion

Intrusion Alarm module Intuition Alarm is an electronic system that uses sensor technology and electronic information technology to detect and indicate illegal entry or attempted illegal entry into a fortified area (including subjective judgments when facing hijacking or robbery or other critical situations, intentionally triggering an emergency alarm device), process alarm information, and send alarm messages.

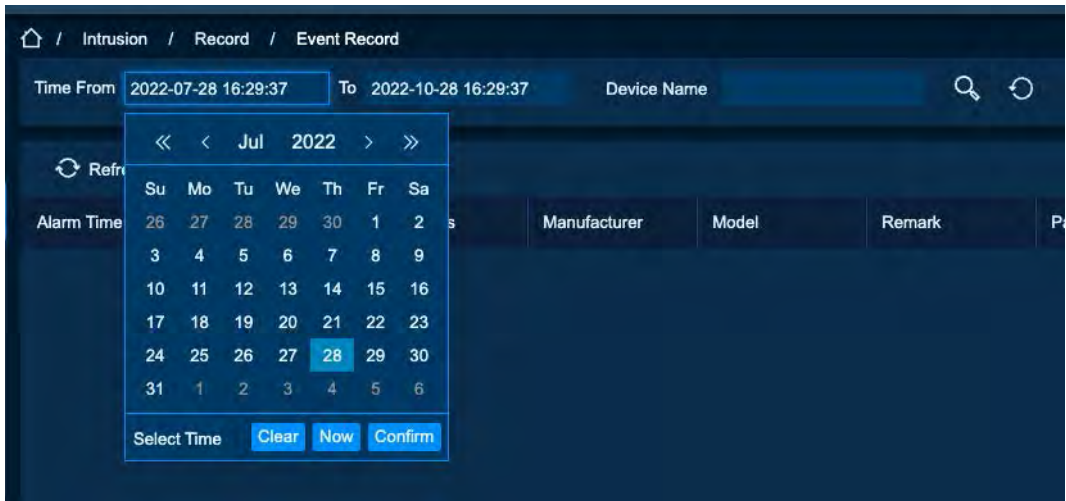
## Real-Time Monitoring

Enables dynamic image display of alarm status (Online/ Office), supports alarm operation, remote activation of always-open timeslot, remote cancellation of alarm, and quick view of recent events of alarm.



## Event Record

The system automatically records triggered alarms and is able to display the record of a specific period of time. For example, if the record of triggered alarms is required from 28th July to 30th July 2022, the system automatically collects and sorts out the record of the selected period of time, and displays them for convenient inspection of record.



# ARMATURA ONE

Report Templates

## Personnel Management Summary Report @Personnel Module

Person

Personnel ID	First Name	Last Name	Department Number	Department Name	Gender	Birthday	Password	Certificate Type	Certificate Number	Card Number	Email	Reservation Code	Mobile Phone
1	Jerry	Wang	1	General Development Department	Male	1980-04-23	1	1	TP443686	4461253	abwe@qwe.com	123456	59400404
2	Lucky	Tan	3	Hotel	Female	1992-12-08	2	3	784515	6155206	778@abo.com	123456	4425521
2040	Sherry	Yang	4	Financial Department	Female	1997-12-01	2040	1	741741	1411237	555@qq.com	123456	145145145
3	Leo	Hou	4	General	Male	1998-12-22	3	1	23687	13271770	3232@qq.com	123456	34342543
4	Berry	Cao	1	Marketing Department	Female	2007-12-05	4	4	746888QWA	13592941	QWA@zzz.com	123456	74755486
5	Nicol	Ye	2	Financial Department	Male	2017-01-10	5	1	32242311	13290079	3322@qq.com	123456	6945454
6	Amber	Lin	4	General	Female	2017-07-04	6	1	784525004	4028036	787878@eru.com	123456	44620545
7	Jacky	Xiang	1	Marketing Department	Female	2016-01-06	7	8	ees1213232	6323504	434@qq.com	123456	54243231
8	Glori	Liu	2	Development Department	Female	1995-12-06	8	1	433114354	6189166	987@abcd.com	123456	77545353
9	Lilian	Mei	3	Development Department	Female	1982-12-23	9	1	X522030	9505630	8686@ppp.com	123456	221112121

## Access Report @Access Module

Total People 10

Personnel ID	First Name	Last Name	Department	Card Number	Last Access Time	Last Access Reader
1	Jerry	Wang	General	4461253	2017-12-18 09:20:31	102.168.218.80-2-1-1
2	Lucky	Tan	Development Department	6155206	2017-12-18 09:27:12	102.168.218.80-1-1-1
2040	Sherry	Yang	Hotel	1411237	2017-12-18 09:55:52	102.168.218.80-1-1-1
3	Leo	Hou	Financial Department	13271770	2017-12-18 09:34:57	102.168.218.80-2-1-1
4	Berry	Cao	General	13592941	2017-12-18 09:55:59	102.168.218.80-1-1-1
5	Nicol	Ye	Marketing Department	13260079	2017-12-18 09:34:18	102.168.218.80-1-1-1
6	Amber	Lin	Financial Department	4628036	2017-12-18 09:25:29	102.168.218.80-1-1-1
7	Jacky	Xiang	General	6323994	2017-12-18 09:27:18	102.168.218.80-2-1-1
8	Glori	Liu	Marketing Department	6189166	2017-12-18 09:34:20	102.168.218.80-2-1-1
9	Lilian	Mei	Development Department	9505830	2017-12-18 09:27:22	102.168.218.80-1-1-1

## All Access Transactions @Access Module

All Transactions

Time	Device Name	Event Point	Event Description	Personnel ID	First Name	Last Name	Card Number	Department Name	Reader Name	Verification Mode	Area Name	Remark
2017-12-15 18:28:02	192.168.218.60	192.168.218.60-2	Background Verify Success	6	Amber	Lin	4626036	Financial Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:59	192.168.218.60	192.168.218.60-1	Background Verify Success	6	Amber	Lin	4626036	Financial Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:45	192.168.218.60	192.168.218.60-2	Background Verify Success	5	Neol	Ye	13260079	Marketing Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:41	192.168.218.60	192.168.218.60-1	Background Verify Success	5	Neol	Ye	13260079	Marketing Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:38	192.168.218.60	192.168.218.60-2	Background Verify Success	1	Jerry	Wang	4481253	General	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:35	192.168.218.60	192.168.218.60-1	Background Verify Success	1	Jerry	Wang	4481253	General	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:23	192.168.218.60	192.168.218.60-2	Background Verify Success	2940	Sherry	Yang	1411237	Hotel	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:20	192.168.218.60	192.168.218.60-1	Background Verify Success	2940	Sherry	Yang	1411237	Hotel	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:17	192.168.218.60	192.168.218.60-2	Background Verify Success	9	Lilian	Mei	9505930	Development Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:13	192.168.218.60	192.168.218.60-1	Background Verify Success	9	Lilian	Mei	9505930	Development Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:08	192.168.218.60	192.168.218.60-2	Background Verify Success	3	Leo	Hou	13271770	Financial Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:01	192.168.218.60	192.168.218.60-1	Background Verify Success	3	Leo	Hou	13271770	Financial Department	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:18	192.168.218.60	192.168.218.60-1	Remote Opening						Other	Other	Area Name	
2017-12-15 18:28:04	192.168.218.60	192.168.218.60-1	Remote Opening						Other	Other	Area Name	
2017-12-15 18:28:52	192.168.218.60	192.168.218.60-2	Background Verify Success	1	Jerry	Wang	4481253	General	192.168.218.60-2-1n	Only Card	Area Name	
2017-12-15 18:28:40	192.168.218.60	192.168.218.60-1	Remote Opening						Other	Other	Area Name	
2017-12-15 18:28:26	192.168.218.60	192.168.218.60-1	Remote Opening						Other	Other	Area Name	
2017-12-15 18:28:22	192.168.218.60	192.168.218.60-2	Background Verify Success	1	Jerry	Wang	4481253	General	192.168.218.60-2-1n	Only Card	Area Name	



Business Trip Report @Attendance Module

Business Trip

Personnel ID	First Name	Last Name	Department Number	Department Name	Start Time	End Time	Remark	Operation Time
4	Berry	Cao	1	General	2017-12-15 16:37:27	2017-12-15 16:37:27		2017-12-15 16:37:31
5	Necol	Ye	2	Marketing Department	2017-12-18 11:42:28	2017-12-18 11:42:28	Go to Shenzhen	2017-12-18 11:42:51
8	Glori	Liu	2	Marketing Department	2017-12-18 11:42:55	2017-12-18 11:42:55	Go to Thailand	2017-12-18 11:43:08

Overtime Report @Attendance Module

Overtime

Personnel ID	First Name	Last Name	Department Number	Department Name	OT Type	Start Time	End Time	Remark	Operation Time
3	Leo	Hou	4	Financial Department	Normal OT	2017-12-15 16:37:34	2017-12-15 16:37:34		2017-12-15 16:37:37
5	Necol	Ye	2	Marketing Department	Normal OT	2017-12-18 11:44:03	2017-12-18 11:44:03	Finish Project	2017-12-18 11:44:28

## Daily Attendance Report @Attendance Module

### Daily Attendance

Personnel ID	First Name	Last Name	Department Number	Department Name	Record Date	Record Times	Earliest Time	Latest Time	Punch Time
1	Jerry	Wang	1	General	2017-12-15	35	16:33:27	16:28:38	16:33:27;16:33:28; 16:33:34;16:34:03; 16:34:04;16:34:05; 16:34:08;16:35:02; 16:35:03;17:35:25; 17:35:26;17:42:50; 17:42:51;17:42:52; 17:56:48;17:58:50; 18:04:44;18:04:45; 18:22:20;18:22:21; 18:23:12;18:23:16; 18:23:18;18:23:19; 18:23:36;18:23:37; 18:23:52;18:24:58; 18:25:00;18:25:13; 18:25:14;18:28:34; 18:28:35;18:28:37; 18:28:38;
2	Lucky	Tan	3	Development Department	2017-12-15	20	16:33:42	18:28:56	16:33:42;16:33:43; 16:33:51;16:33:59; 16:34:00;16:35:05; 16:35:08;17:35:32; 17:42:47;17:42:48; 17:58:03;17:58:04; 17:59:38;17:59:39; 18:04:59;18:05:00; 18:05:07;18:05:08; 18:09:35;18:09:36; 18:23:00;18:23:01; 18:23:02;18:28:53; 18:28:55;18:28:56;
2840	Sherry	Yang	hotel	Hotel	2017-12-15	17	16:33:16	18:29:23	16:34:10;16:35:08; 16:35:08;17:35:18; 17:43:01;17:43:02;

# Leave Summary Report @Attendance Module

## Leave Summary

Personnel ID	First Name	Last Name	Department Number	Department Name	Leave Type Statistics
1	Jerry	Wang	1	General	Casual Leave(1) Marriage Leave(0) Maternity Leave(0) Sick Leave(0) Annual Leave(0) Bereavement Leave(0) Breastfeeding Leave(0) Custom Leave(0)
5	Neool	Ye	2	Marketing Department	Casual Leave(0) Marriage Leave(0) Maternity Leave(0) Sick Leave(0) Annual Leave(1) Bereavement Leave(0) Breastfeeding Leave(0) Custom Leave(0)
8	Lilian	Mei	3	Development Department	Casual Leave(0) Marriage Leave(0) Maternity Leave(0) Sick Leave(0) Annual Leave(0) Bereavement Leave(0) Breastfeeding Leave(1) Custom Leave(0)
3	Leo	Hou	4	Financial Department	Casual Leave(0) Marriage Leave(1) Maternity Leave(0) Sick Leave(0) Annual Leave(0)

Leave Report @Attendance Module

Leave

Personnel ID	First Name	Last Name	Department Number	Department Name	Leave Type	Start Time	End Time	Remark	Operation Time
1	Jerry	Wang	1	General	Casual Leave	2017-12-15 16:36:07	2017-12-15 16:36:07		2017-12-15 16:36:17
3	Leo	Hou	4	Financial Department	Marriage Leave	2017-12-15 18:38:48	2017-12-15 18:38:48		2017-12-15 18:38:53
5	Necol	Ye	2	Marketing Department	Annual Leave	2017-12-15 16:36:19	2017-12-15 16:36:19		2017-12-15 16:36:27
6	Amber	Lin	4	Financial Department	Sick Leave	2017-12-15 18:38:54	2017-12-15 18:38:54		2017-12-15 18:39:00
9	Lilian	Mei	3	Development Department	Breastfeeding Leave	2017-12-15 18:39:02	2017-12-15 18:39:02		2017-12-15 18:39:10

Time Shift Report @Attendance Module

Shift

Name	Number	Schedule Type	Unit	Cycle	Start Date	Cycle Shift in one Month
Day Shift	1	Regular Shift	Day	10	2017-12-15	Yes
Night	2	Regular Shift	Day	10	2017-12-18	Yes
Flexible	3	Flexible Shift	Day	10	2017-12-18	Yes

Time Zone @Attendance Module

Time Zone

Name	Number	Timetable Type	Check-in Start Time	Check-in Time	Check-out Time	Check-out End Time
Normal Time	1	Normal Time Zone	08:00	09:00	18:00	19:00
Flexible Timetable	2	Flexible Timetable	09:00			18:00
Day Time	3	Normal Time Zone	08:00	08:30	18:00	19:00
Test	T4	Normal Time Zone	20:00	20:30	23:30	23:59

# Elevator control report @Elevator Module

All Transactions

Time	Device	Event Point	Event Description	Personnel ID	First Name	Last Name	Card Number	Department	Reader Name	Verification Mode	Area	Remark
2017-12-15 10:36:43	192.168.218.05	192.168.218.05-8	Normal Punch Open	3	Leo	Hou	13260079	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:43	192.168.218.05	192.168.218.05-5	Normal Punch Open	3	Leo	Hou	13260079	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:43	192.168.218.05	192.168.218.05-6	Normal Punch Open	3	Leo	Hou	13260079	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:39	192.168.218.05	192.168.218.05-1	Normal Punch Open	1	Jerry	Wang	9506630	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:39	192.168.218.05	192.168.218.05-4	Normal Punch Open	1	Jerry	Wang	9506630	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:39	192.168.218.05	192.168.218.05-3	Normal Punch Open	1	Jerry	Wang	9506630	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:39	192.168.218.05	192.168.218.05-2	Normal Punch Open	1	Jerry	Wang	9506630	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:36	192.168.218.05	192.168.218.05-6	Normal Punch Open	2	Lucky	Tan	13271770	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:36	192.168.218.05	192.168.218.05-10	Normal Punch Open	2	Lucky	Tan	13271770	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:36	192.168.218.05	192.168.218.05-9	Normal Punch Open	2	Lucky	Tan	13271770	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:36	192.168.218.05	192.168.218.05-7	Normal Punch Open	2	Lucky	Tan	13271770	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:31	192.168.218.05	192.168.218.05-6	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:31	192.168.218.05	192.168.218.05-8	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:31	192.168.218.05	192.168.218.05-7	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:31	192.168.218.05	192.168.218.05-5	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:51	192.168.218.05	192.168.218.05-6	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:51	192.168.218.05	192.168.218.05-8	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:51	192.168.218.05	192.168.218.05-5	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	
2017-12-15 10:36:51	192.168.218.05	192.168.218.05-4	Normal Punch Open	2040	Sherry	Yang	4461233	General	192.168.218.05-Reader	Card or Fingerprint	Area Name	

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# Guest Check-in Report @Hotel Module

Guest Checkin Report

First Name	Last Name	Document Type	Document No.	Card Number	Check-in Time	Check-out Time	Checkin Type	Room Name	Room Type
Maryan	Liu	ID	44443333	4117849102	2017-12-15 14:42:09	2017-12-15 15:18:49	Daily Rate Room	A1101	A
Carlan	Xie	Passport	332454	4117856142	2017-12-15 14:51:15	2017-12-15 15:14:20	Daily Rate Room	B1103	A
Lucy	Feng	Passport	232145523	301973533	2017-12-15 14:43:39	2017-12-15 15:13:52	Daily Rate Room	A1102	A
Lucy	Feng	Passport	232145523	301973533	2017-12-15 15:13:52	2017-12-15 15:19:08	Daily Rate Room	B1105	A
Hook		ID	5577558	4117862494	2017-12-15 14:45:37	2017-12-15 14:50:08	Daily Rate Room	B1102	A
Maryan	Liu	ID	44443333	4117849102	2017-12-15 14:42:08	2017-12-15 15:18:49	Daily Rate Room	A1101	A
Bruno	Ke	Driver License	22322123	4117882494	2017-12-15 14:51:15	2017-12-15 15:14:20	Daily Rate Room	B1103	A

# Visitor History Record @Visitor Module

Visitor History Record															
Visitor Code	First Name	Last Name	Company	Visit Reason	Host Number	Host First Name	Host Last Name	Visit Status	Card Number	Enter Time	Entrance	Exit Time	Exit Place	Carrying Goods In	Carrying Goods Out
800000011	Morry	Fang	Google	Visit	7	Jacky	Xiang	Check-Out	6189166	2017-12-15 11:44:57	server	2017-12-15 11:46:20	server	Camera Device	Camera Device
800000010	Tommy	Qi	ZKTeoo-Th	Visit	6	Amber	Lin	Check-Out	6323964	2017-12-15 11:42:38	server	2017-12-15 11:46:26	server	Camera Card	Camera Card
800000009	Ellan	Peng	ZKTeoo-Eu	Visit	5	Nicol	Ye	Check-Out	13592341	2017-12-15 11:41:01	server	2017-12-15 11:46:51	server	Book Bottle	Book Bottle
800000008	Goura	Viny	Esst	Visit	4	Berry	Cao	Check-Out	1411237	2017-12-15 11:38:14	server	2017-12-15 11:46:00	server	Kindle	Kindle
800000007	Monic	Wu	ZKTECO	Visit	1	Jerry	Wang	Check-Out	4628366	2017-12-15 11:21:14	server	2017-12-15 11:23:00	server	PC	PC
800000006	Bella	Yu		Visit	2940	Sherry	Yang	Check-Out	4461253	2017-12-15 11:05:28	server	2017-12-15 11:22:00	server	Video	Video
800000005	Bill	Fang		Visit	3	Leo	Hou	Check-Out	9505930	2017-12-15 11:02:36	server	2017-12-15 11:21:43	server	PC	PC
800000004	Tom	Lee		Visit	2	Lucky	Tan	Check-Out	13290079	2017-12-15 10:59:56	server	2017-12-15 11:21:31	server	IPAD	
800000003	Stephin	Chen		Visit	3	Leo	Hou	Check-Out	13290079	2017-12-15 10:47:43	server	2017-12-15 10:56:57	server		
800000002	Joey	Leung		Visit	2	Lucky	Tan	Check-Out	9505930	2017-12-15 10:46:06	server	2017-12-15 10:57:06	server		
800000001	Mary	Huang		Visit	2940	Sherry	Yang	Check-Out	4461253	2017-12-15 10:43:43	server	2017-12-15 10:57:27	server		

# Patrol Guard Transaction Record @Patrol Module

All Transactions

All Transactions													
Time	Device Name	Personnel ID	First Name	Last Name	Card Number	Device Module	Route Name	Checkpoint	Verification Mode	Area Name	Remark		
2017-12-15 13:53:51	192.168.218.60	8	Glori	Liu	6189166	Access	Route1	checkpoint11	Only Card	Area Name			
2017-12-15 13:53:51	192.168.218.60	8	Glori	Liu	6189166	Access	Route1	checkpoint12	Only Card	Area Name			
2017-12-15 13:53:49	192.168.218.60	8	Glori	Liu	6189166	Access	Route1	checkpoint12	Only Card	Area Name			
2017-12-15 13:53:48	192.168.218.60	8	Glori	Liu	6189166	Access	Route1	checkpoint11	Only Card	Area Name			
2017-12-15 13:53:46	192.168.218.60	7	Jacky	Xiang	6323964	Access	Route1	checkpoint12	Only Card	Area Name			
2017-12-15 13:53:46	192.168.218.60	7	Jacky	Xiang	6323964	Access	Route1	checkpoint11	Only Card	Area Name			
2017-12-15 11:54:18	192.168.218.60	8	Glori	Liu	6189166	Access	route1	checkpoint11	Only Card	Area Name			
2017-12-15 11:54:17	192.168.218.60	8	Glori	Liu	6189166	Access	route1	checkpoint12	Only Card	Area Name			
2017-12-15 11:54:15	192.168.218.60	7	Jacky	Xiang	6323964	Access	route1	checkpoint12	Only Card	Area Name			
2017-12-15 11:54:14	192.168.218.60	7	Jacky	Xiang	6323964	Access	route1	checkpoint11	Only Card	Area Name			
2017-12-15 11:54:10	192.168.218.60	5	Nicol	Ye	13260079	Access	route1	checkpoint12	Only Card	Area Name			
2017-12-15 11:54:10	192.168.218.60	5	Nicol	Ye	13260079	Access	route1	checkpoint11	Only Card	Area Name			
2017-12-15 11:54:08	192.168.218.60	2	Lucky	Tan	6155266	Access	route1	checkpoint11	Only Card	Area Name			
2017-12-15 11:54:07	192.168.218.60	2	Lucky	Tan	6155266	Access	route1	checkpoint12	Only Card	Area Name			
2017-12-15 11:53:48	192.168.218.60	2	Lucky	Tan	6155266	Access	route1	checkpoint11	Only Card	Area Name			
2017-12-15 11:53:47	192.168.218.60	2	Lucky	Tan	6155266	Access	route1	checkpoint12	Only Card	Area Name			
2017-12-15 11:53:44	192.168.218.60	2	Lucky	Tan	6155266	Access	route1	checkpoint11	Only Card	Area Name			
2017-12-15 11:53:44	192.168.218.60	2	Lucky	Tan	6155266	Access	route1	checkpoint12	Only Card	Area Name			

## Patrol Record by Day @Patrol Module

Patrol Records Today											
Time	Device Name	Personnel ID	First Name	Last Name	Card Number	Device Module	Route Name	Checkpoint	Verification Mode	Area Name	Remark
2017-12-15 13:53:51	192.168.218.80	8	Glori	Liu	0189190	Access	Route1	checkpoint1	Only Card	Area Name	
2017-12-15 13:53:51	192.168.218.80	8	Glori	Liu	0189198	Access	Route1	checkpoint2	Only Card	Area Name	
2017-12-15 13:53:49	192.168.218.80	8	Glori	Liu	0189190	Access	Route1	checkpoint2	Only Card	Area Name	
2017-12-15 13:53:48	192.168.218.80	8	Glori	Liu	0189190	Access	Route1	checkpoint1	Only Card	Area Name	
2017-12-15 13:53:48	192.168.218.80	7	Jacky	Xiang	6323964	Access	Route1	checkpoint2	Only Card	Area Name	
2017-12-15 13:53:48	192.168.218.80	7	Jacky	Xiang	6323964	Access	Route1	checkpoint1	Only Card	Area Name	
2017-12-15 11:54:18	192.168.218.80	8	Glori	Liu	0100168	Access	route1	checkpoint1	Only Card	Area Name	
2017-12-15 11:54:17	192.168.218.80	8	Glori	Liu	0189198	Access	route1	checkpoint2	Only Card	Area Name	
2017-12-15 11:54:15	192.168.218.80	7	Jacky	Xiang	6323964	Access	route1	checkpoint2	Only Card	Area Name	
2017-12-15 11:54:14	192.168.218.80	7	Jacky	Xiang	6323964	Access	route1	checkpoint1	Only Card	Area Name	
2017-12-15 11:54:10	192.168.218.80	5	Neol	Ye	13280070	Access	route1	checkpoint2	Only Card	Area Name	
2017-12-15 11:54:10	192.168.218.80	5	Neol	Ye	13280070	Access	route1	checkpoint1	Only Card	Area Name	
2017-12-15 11:54:08	192.168.218.80	2	Lucky	Tan	6155288	Access	route1	checkpoint1	Only Card	Area Name	
2017-12-15 11:54:07	192.168.218.80	2	Lucky	Tan	6155288	Access	route1	checkpoint2	Only Card	Area Name	
2017-12-15 11:53:48	192.168.218.80	2	Lucky	Tan	6155288	Access	route1	checkpoint1	Only Card	Area Name	
2017-12-15 11:53:47	192.168.218.80	2	Lucky	Tan	6155288	Access	route1	checkpoint2	Only Card	Area Name	
2017-12-15 11:53:44	192.168.218.80	2	Lucky	Tan	6155288	Access	route1	checkpoint1	Only Card	Area Name	
2017-12-15 11:53:43	192.168.218.80	2	Lucky	Tan	6155288	Access	route1	checkpoint2	Only Card	Area Name	

## Operation Log Record @System Module

Operation Log

Operation User	Operation Time	Operation IP	Module	Operating Object	Operation Type	Operation Content	Result
admin	2017-12-18 15:06:35	127.0.0.1	Visitor	Visitor	Export	Export	Succeed
admin	2017-12-18 15:03:40	127.0.0.1	Elevator	Access Rights By Personnel	Export	Export	Succeed
admin	2017-12-18 15:03:17	127.0.0.1	Elevator	Access Rights By Floor	Export	Export	Succeed
admin	2017-12-18 15:02:59	127.0.0.1	Elevator	All Exception Events	Export	Export	Succeed
admin	2017-12-18 15:01:27	127.0.0.1	Elevator	All Transactions	Export	Export	Succeed
admin	2017-12-18 14:25:34	127.0.0.1	Attendance	Appended Receipt	Export	Export	Succeed
admin	2017-12-18 14:24:41	127.0.0.1	Attendance	Leave	Export	Export	Succeed
admin	2017-12-18 14:24:05	127.0.0.1	Attendance	Leave	Export	Export	Succeed
admin	2017-12-18 14:23:45	127.0.0.1	Attendance	Business Trip	Export	Export	Succeed
admin	2017-12-18 14:23:25	127.0.0.1	Attendance	Go Out	Export	Export	Succeed
admin	2017-12-18 14:22:26	127.0.0.1	Attendance	Overtime	Export	Export	Succeed
admin	2017-12-18 14:13:28	127.0.0.1	Attendance	Overtime	Export	Export	Succeed
admin	2017-12-18 14:08:58	127.0.0.1	Attendance	Adjust and Append	Export	Export	Succeed
admin	2017-12-18 14:04:21	127.0.0.1	Attendance	Adjust Shift	Export	Export	Succeed
admin	2017-12-18 14:02:21	127.0.0.1	Attendance	Adjust Shift	New	5	Succeed
admin	2017-12-18 14:00:27	127.0.0.1	Attendance	Adjust Shift	New	4:3	Succeed
admin	2017-12-18 13:56:27	127.0.0.1	Attendance	Adjust Shift	New	3	Succeed
admin	2017-12-18 13:55:40	127.0.0.1	Attendance	Adjust and Append	New	3,3	Succeed

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