



# ACTATEK

**Big Data Analytic Ready Edge AI IoT system  
Durable Electronic & Physical Access Control  
Facility, Workforce & Visitor Management Application  
Improve Your ROI, ESG & Carbon Footprint,  
Efficiency, Consistency & Productivity**



## Executive Summary

**Access control ID management system is the foundation of intelligent building and smart city, without people there's no need for them.**

**Actatek integrated AI IoT application platform resolve the pains of ID management security and business processes faced by many corporations worldwide:**

**Open: It allows cross platform integration with any third party applications using the highly secure SOAP API and hardware at IP network level;**

**Scalable: Install one today and thousands tomorrow without any geographic limits**

**Sustainable: Technology proof with periodic online update of functions, features and security patches. Horizontal add on modulo business and security applications**

**User friendly: Just like internet banking without expensive trainings**

**ESG and NetZero 2050: All most all building carbon and energy saving solutions do not take into account of people occupancy whereas without people there's no need for these solutions. Access control ID management is the brain and heart of smart buildings: for example: knowing the occupancy one can manage room temperature dynamically depending on occupancy and area.**

## Towards A Smart Future City

**Smart City Requires Digital AI IoT-centric ID Access Management Eco-system**

**It Brings:**

**Plug and Play Installation, no need of specialists onsite for cabling, installation, setting and no damage to existing renovations**

**Financial and operational benefits beyond just user safety and security.**

**It's faster, more flexible, dynamic, efficient, scalable, sustainable and more powerful than any other approach.**

**It's a more functional, futureproofed, connectable access and integrated building management system.**

**Integrated security quickly streamlines employee workflows: staffs work from a unified interface, rather than multiple parallel systems, they save time and reduce manual errors.**

**An IoT, AI and Distributed Ledger Technology (DLT) integrated building management system with connectable and compatible technologies ensure that investments made today may be built on seamlessly in the future.**

**Open compatible solutions, ready to integrate with multiple different systems, offer greater peace of mind than proprietary technologies which 'lock you in' for the long term.**

## ESG Governance & NetZero 2050

**A biometrics, RFID AI IoT centric access system with multiple credentials is also a goldmine of information enables dynamic and inform business decision making, providing another immediate, tangible ROI:**

- a. Better space utilization: if employees only attend the office for part of the week, a company could reduce its rental space;**
- b. Reduce energy use: Lights and aircons off or powered down when occupancy is low or empty;**
- c. Better ESG Governance: AI IoT edge devices connect directly wired or wirelessly into the IT network without the need of non IT cables and cabling significantly reduce installation manpower, time , costs and carbon footprint.**

**Flexible connectivity of access software will help businesses to align functions and services in ever more creative ways — some that haven't even been imagined yet.**

**Connectable solutions prepare a business for what's to come.**

## Carbon Footprint and Cost Comparison

Take an example of a 2 door access control requirement:

Actatek IoT per entrance:

- a. 2 x Actatek IoT + 2 x AMS license

Traditional Card Reader and Controller:

- a. 2 x Reader + 1 x Controller + 2 x Controller software license
- b. 2 lengths of cable cost (US\$2 per meter) + 2 x cabling cost from reader to the controller (depending on local manpower cost)
- c. Costs of connection to IT infrastructure

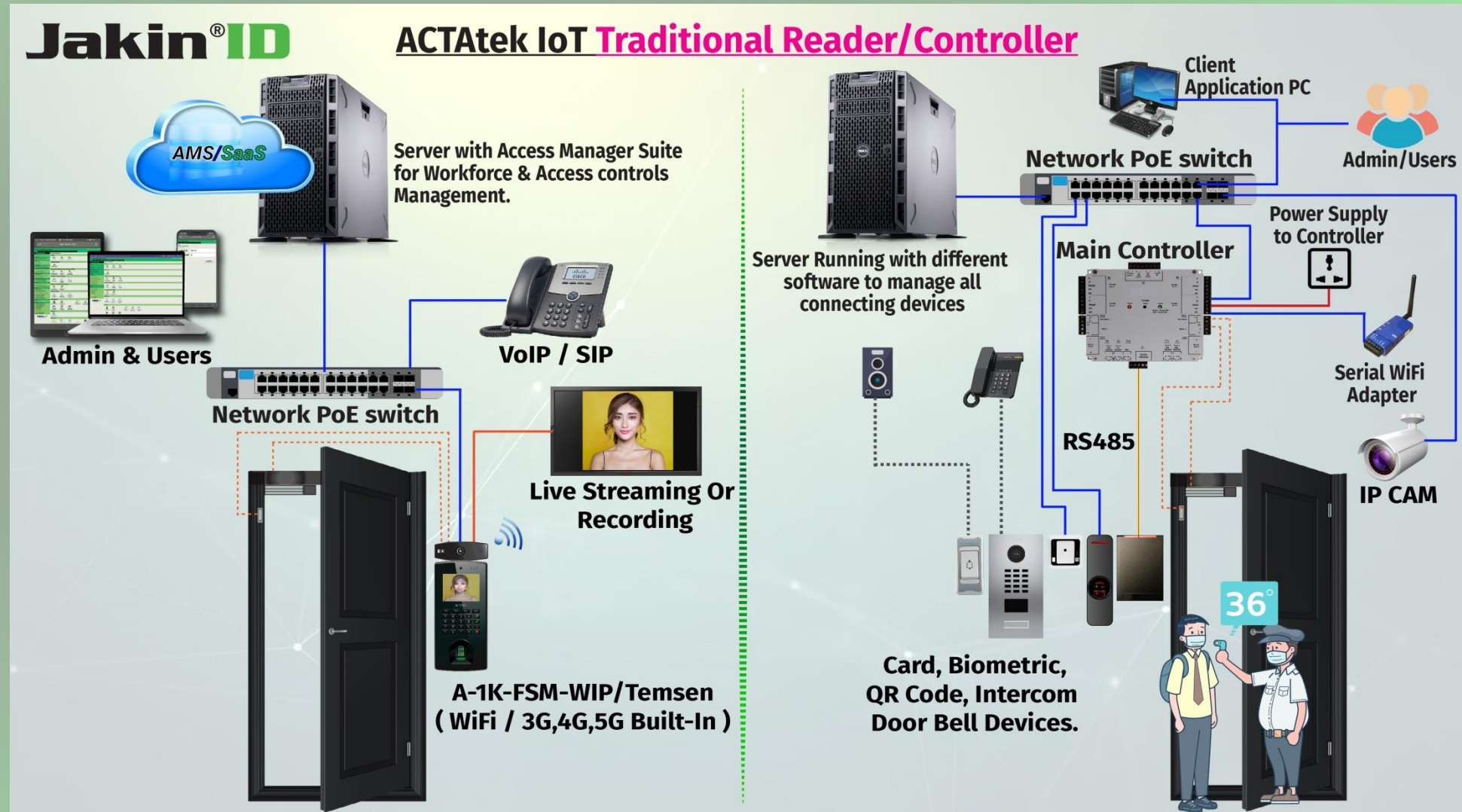
Carbon footprint and energy saving:

- a. Total length of all the cables
- b. Carbon footprint of 2 extra devices
- c. Damages to exiting renovation and redecoration

## IoT Vs Traditional Installations

### Carbon & Energy Savings

- Cables such as from card reader to controllers
- Cabling Manpower and damages to building
- Housing for all the controllers
- Replaced devices such door bell, intercom, etc.
- One simple and easy to replaced failure point instead of multiple hard to replace hardware



## World Wide Customer Reference

- **Banks:** HSBC, BEA, Barclays, Standard, Société Générale, QIIB, QIB
- **Restaurants:** KFC/Pizza, MacDonald, Old Town Coffee, After You, Pacific Coffee
- **Motor Manufacturers:** Toyota, BMW, Proton
- **Manufacturing :** Tetra Pak, Ciba Visions/Novartis, Siemens, Niagara Bottling
- **Mining, Oil & Gas:** Shell, BP, Petronas, Aramco, Qatar Petroleum, Orica P/L, Newcrest, BH, GDI  
Al-Fardan Qatar, Gold Rudge Mining, Downer EDI Mining, HWE Mining, SNC Lavalin, Kent Plc
- **Insurance:** Prudential, AXA
- **Airports & Airlines:** Dubai, Philippines, Dallas, Cathay Pacific, Lufthansa
- **Retailers:** Burberry, SaSa, SuperDry, IKEA, Daiso
- **Hotels:** Four Seasons, Hyatt Hotel, Hilton, The St. Regis Doha, Sheraton, Rosewood
- **Estate Management:** Henderson, Sea Towers, Ezdan
- **Education:** All schools and MOE Qatar & Kuwait, Singapore Schools, Qatar Foundation, Cambridge
- **Governments:** Saudi, Kuwait, Qatar, Singapore, Hong Kong, Macau
- **Borders:** Singapore Woodlands Checkpoint
- **Construction:** UDC, UCC, CCC, Ramco, PHI
- **Telco:** Oman Tel
- **Broadcast:** Bein Sports Qatar, ALKass, Al Rayyan TV

- Actatek edge AI IoT device with multi-factor authentication using biometrics, card, QR, NFC & other credentials for all your access control, time clock and ID management applications.
- With its own database and CPU for 24/7 stand alone operation even if network is down.
- Scale up installations without any geographic restrictions any time when it suits you.
- Plug & play single cable or wireless connectivity
- Online hardware, software functions, features and security upgrades, and maintenance without costly specialists on site.
- Protected by latest TLS 1.3 256 bit encryption and a cyber security hardened customized Linux OS with VAPT report.
- Trusted and installed by Fortune 500 companies and others HSBC, Toyota, Coca Cola, Kent Plc, Cathay Pacific, IKEA, Novartis, Four Seasons, KFC, all schools and MOE of Qatar

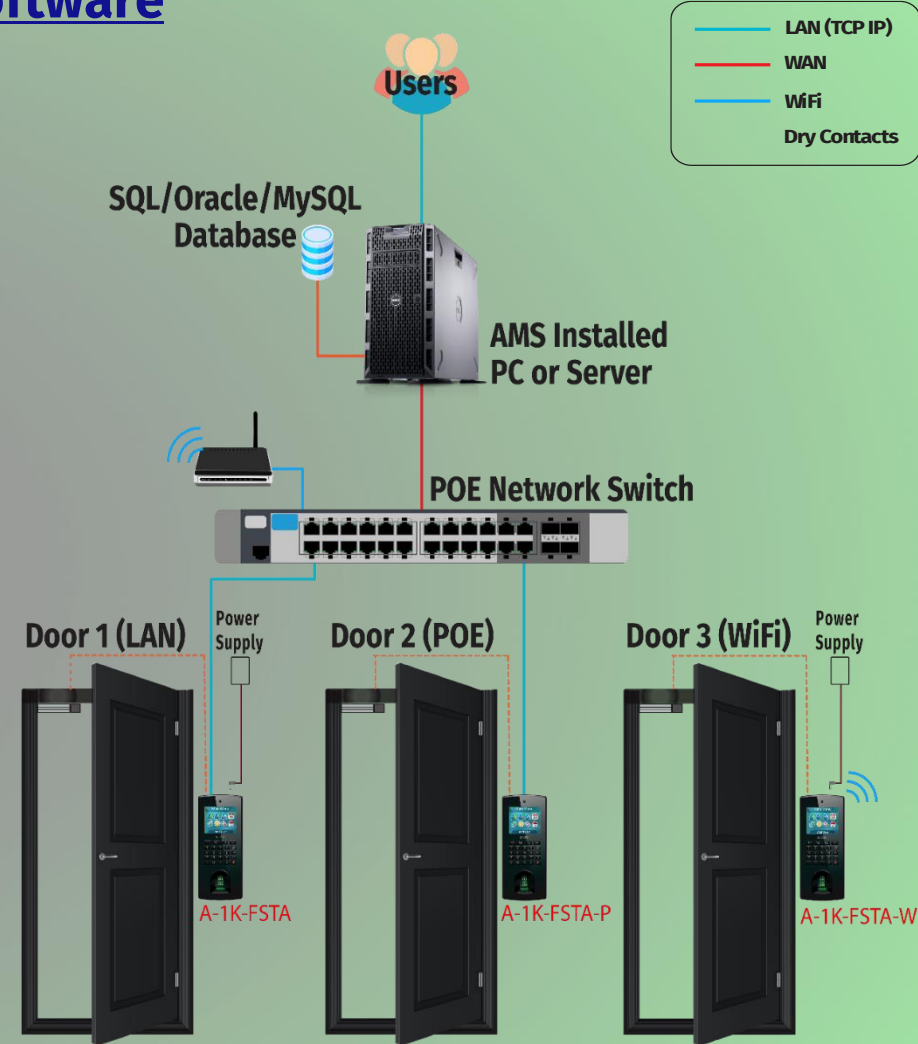


**Key Awards**

- Biometric Vertical Market Penetration Leadership Award by Frost Sullivan 2010"5 Star Rating of Best Buy"- ACTatek Combination Model
- Best Of 2009 " ACTatek Combination Model" (SC Magazine, January Issue,2010)
- Product Innovations award (Network Product Guide,2008)
- High-tech Innovations Award 2006/2007 from American Electronics Association.

## On-Premise or Cloud AMS Software

- Time Attendance
- Shift Management
- HR & Payroll
- Visitor Management
- Access Control
- Tour Guide
- Healthcare Management
- User Attributes & Access Rights, Device, Time Zone, Alarms & Alert Management
- Cyber Security Management & VAPT reports
- Database Management: Oracle, SQL, MySQL, Azure SQL
- Customised Fields For All Vertical Industries



## ACTatek IoT and AMS Integrated Platform Key Features

### ACTatek Key Features

- IP Camera For Picture & Video
- QR Code, RFID &UHF, PIN, NFC, Facial & Fingerprint Authentication
- LAN, POE, Wi-Fi, 4 & 5G
- SIP Intercom, Doorbell,
- TLS 1.3 256-bit Encryption with Updates
- Work Standalone or Online.
- SOAP API's
- Google Drive Integration
- Alerts & Notifications
- Payroll Integration
- Managed Just Like Internet Banking

### Workforce Management Features

- Access Groups/ Rights
- Reject Repeated Events
- Global Auto In/Out
- User Status Report
- Email/SMS Alerts
- Multi-level Job Codes
- Over-night Shifts
- Visitor Management
- Prevent Buddy Punch
- Eliminate Ghost Workers
- Healthcare Assessment Module & Contact Tracing

### Access Control Features

- Emergency Door Open
- Fire Alarm Integration
- Crowd Capacity Control
- Access Group/Rights
- Anti-pass Back
- Roll Call
- Instant Email/SMS Alerts
- Multi-triggers
- Multiple SOAP API
- Optional Body Temperature Access Control

### Network Security

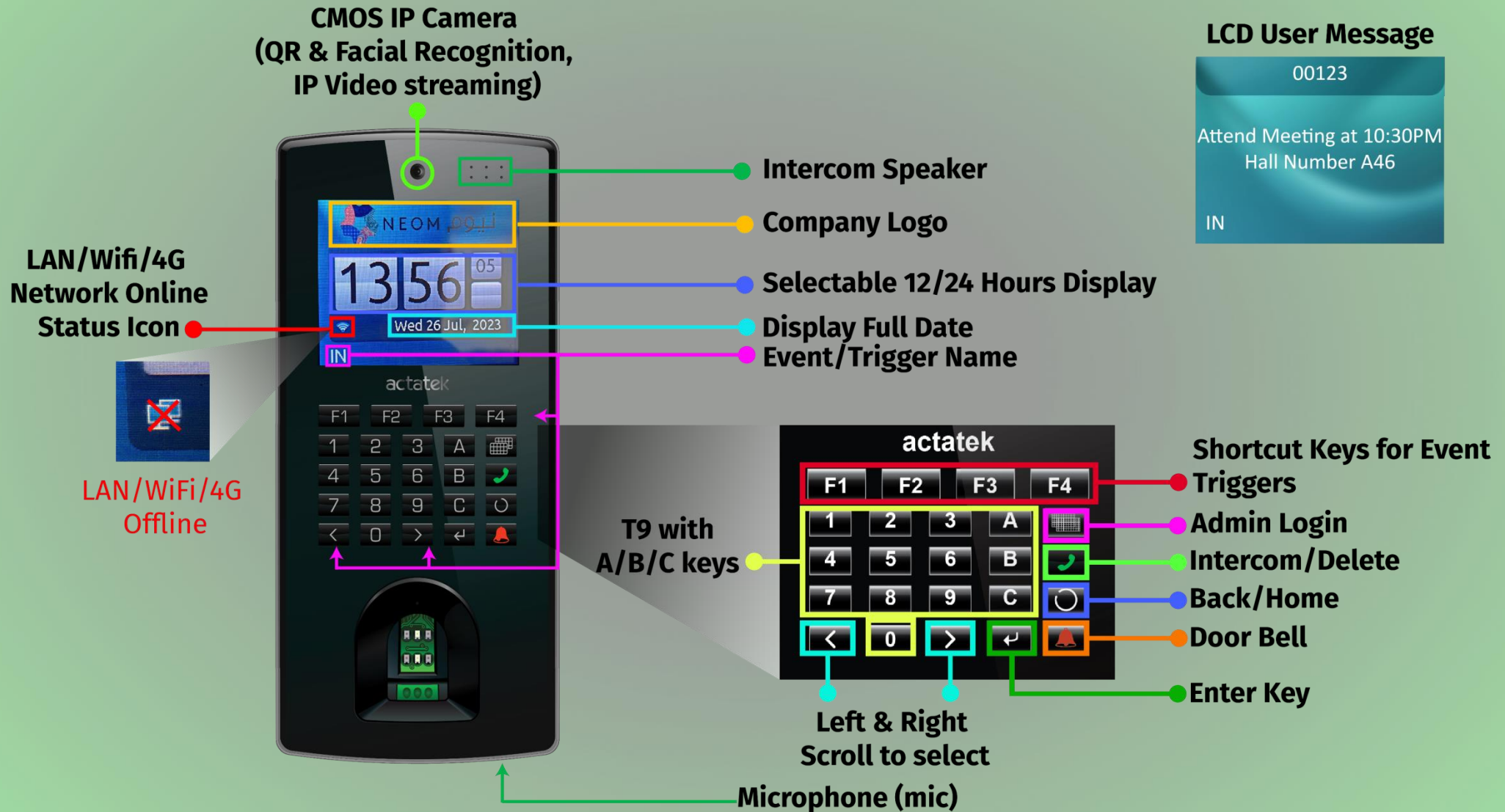
Actatek IoT is protected by TLS 1.3 256-bit encryption and a cyber security hardened Linux OS

### ESG Governance & NetZero 2050

Eliminate Cable and Cabling From Reader to Controller Significantly Reduce Carbon Footprint



## ACTatek Terminal GUI (Standby Mode) & Keypad



## Adding New Users on ACTatek Physical Device



**Finger Print: Place the center of anyone's finger directly above the sensor right in the center, After each placement, wait for the message "Please Remove Finger" on the LCD screen to appear, and then continue to place the same finger slightly aligned to the left and right to finish the 2nd and the 3rd of FP template enrollment.**

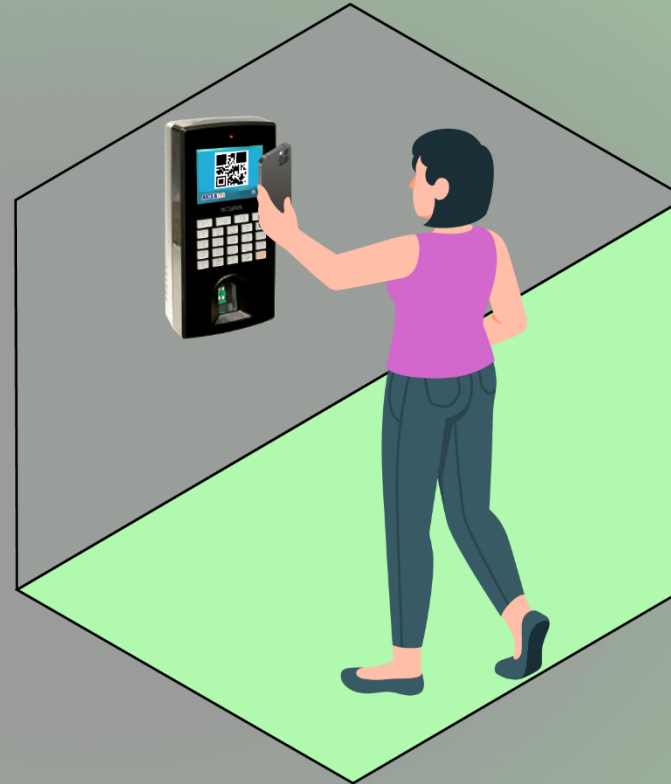
## ACTatek QR Code: How to Enroll and Authenticate



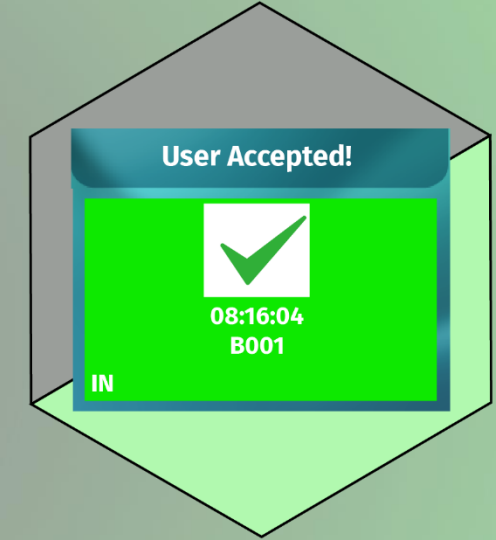
**1. Create a QR code user with any input on ACTatek or AMS and share it with the end users**



**2. User Save the QR code on their mobile device**



**3. Scan the QR code for Authentication**



**4. Enjoy the access**

[Please Visit Our Website to Learn More](#)



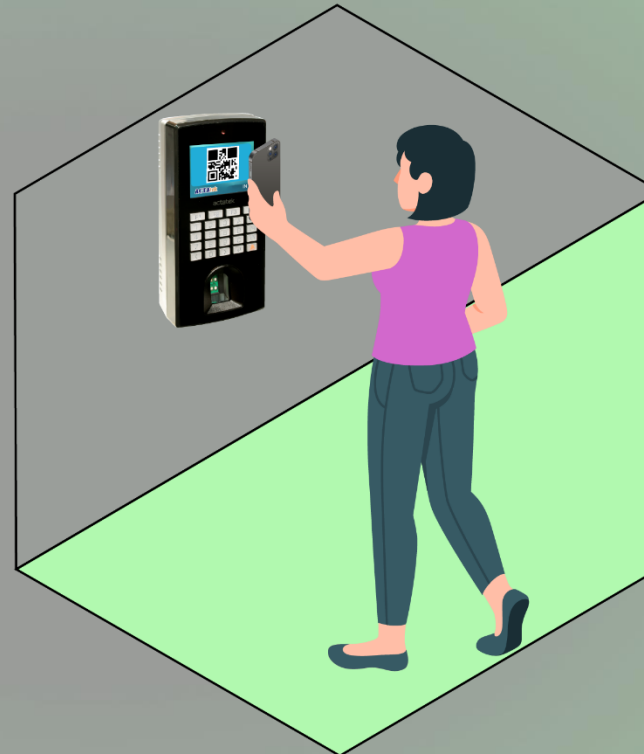
# ACTatek QR Code: How to Enroll and Authenticate with Google Authenticator



1. Create a QR code user with Google Authenticator Key on ACTatek or AMS and share it with the end users



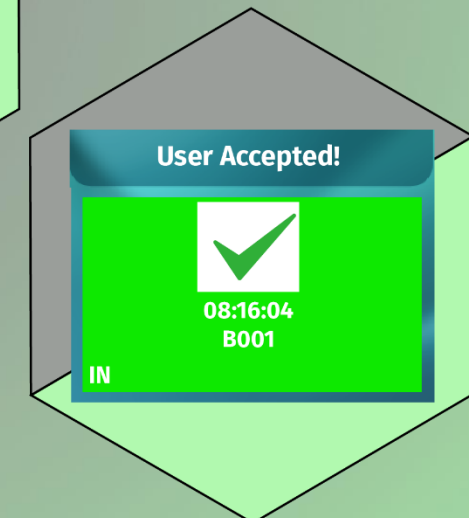
2. User Save the QR code on their mobile device



3. Scan the QR code for Authentication



4. User enter 6 digits Google Passcode



5. Enjoy the access



# Add New User Finger Print Remotely via AMS

## 1. Add The User ID and other details of the user

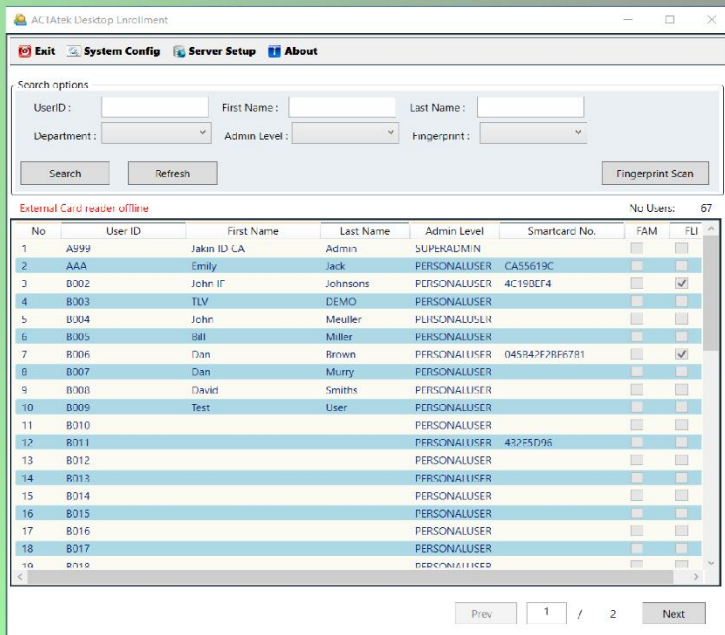
## 2. Users scan their fingerprints at the remote ACTatek devices to complete the registration.

## USB Fingerprint Registration

The USB LogiPrint Reader seamlessly integrates with Desk Top Enrollment Software to perform desktop registration of users in conjunction with the AMS application server platform.

### Step 02:

Search the user and double-click on the UserID to enroll the user fingerprint.



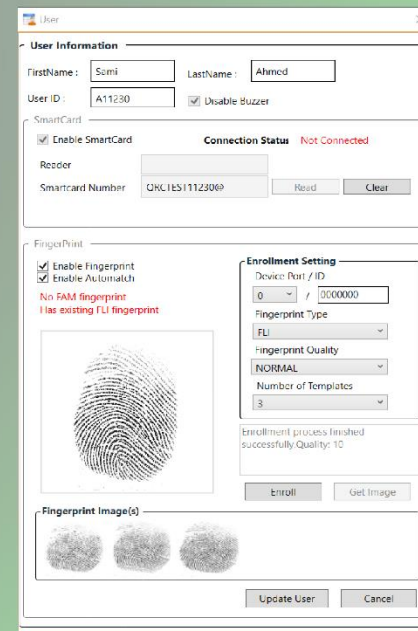
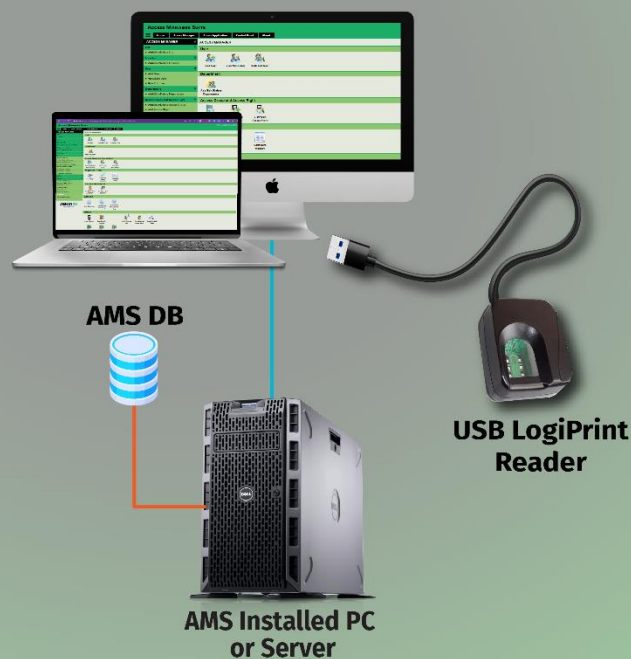
### Step 01:

Login to Desktop Enrollment



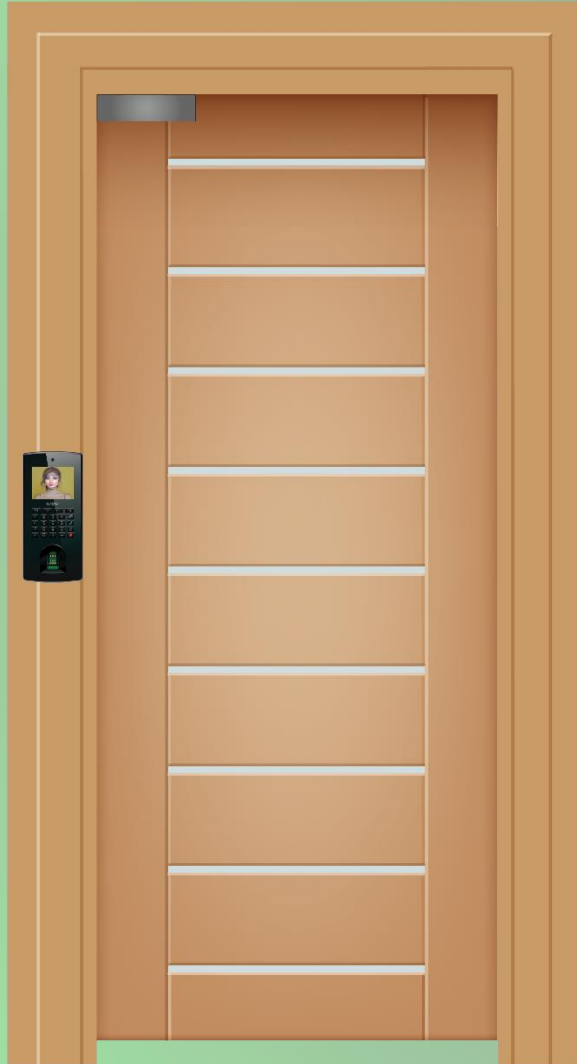
### Step 03:

Place the fingerprint at the LogiPrint USB reader to finish the enrollment.

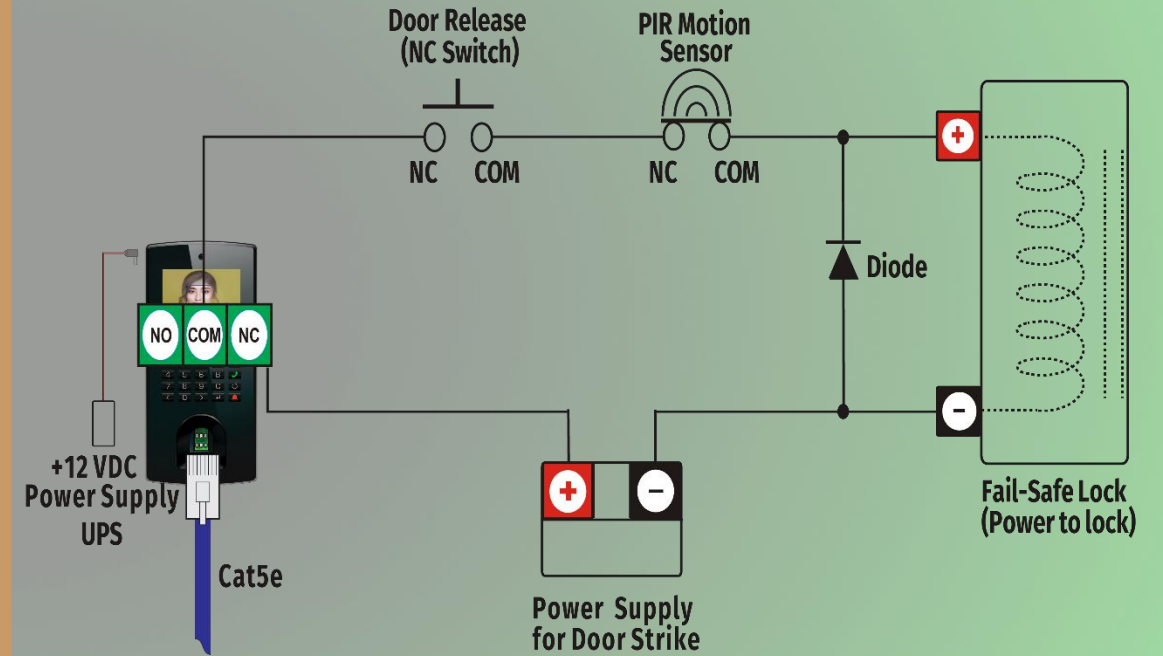


# ACTatek Fail-Safe Access Control

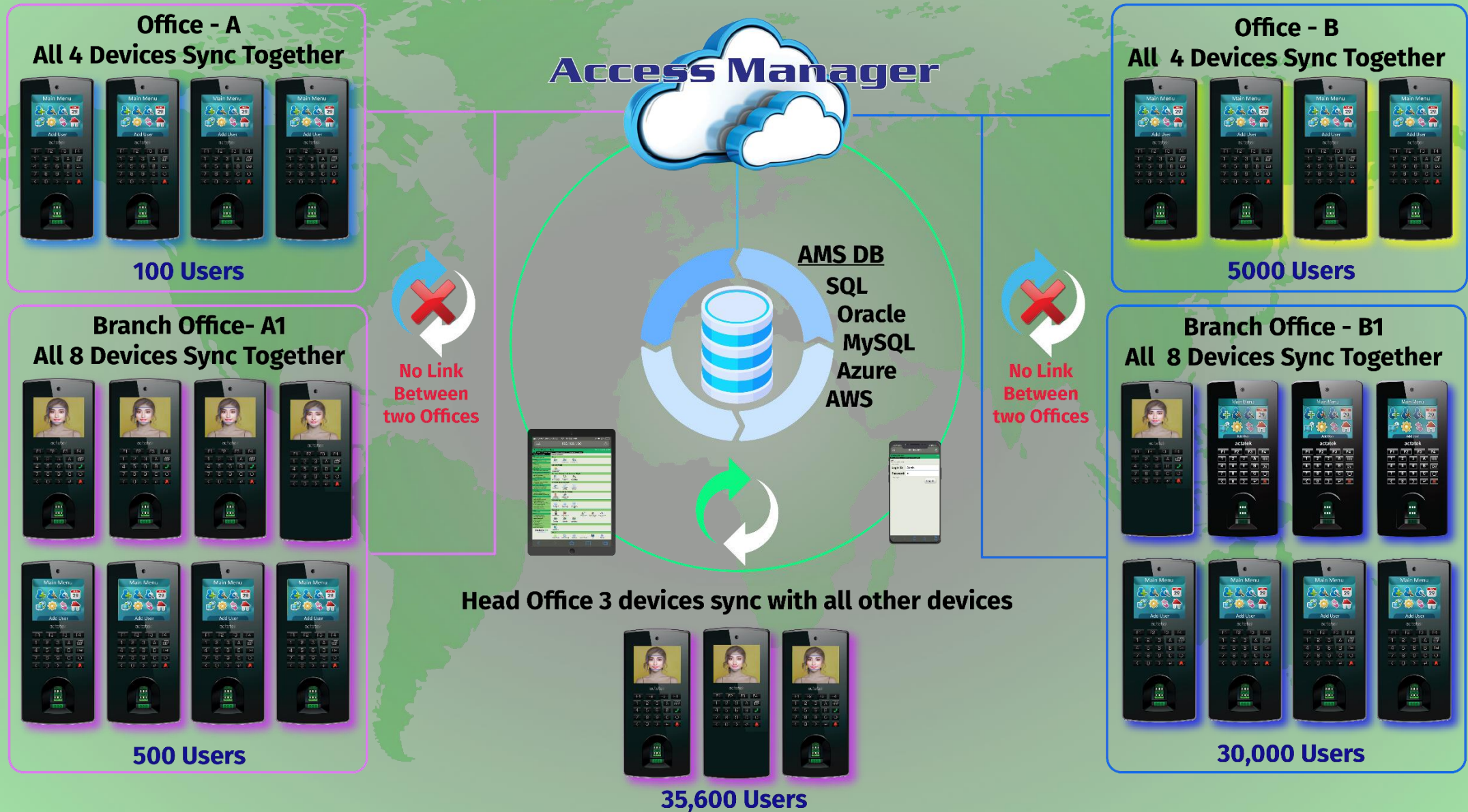
Entrance Side



Exit Side



# Plug-and-Play Scale without Geographical Limitations



# ACTatek & AMS System Architecture

**Option 01 Using LAN or POE**

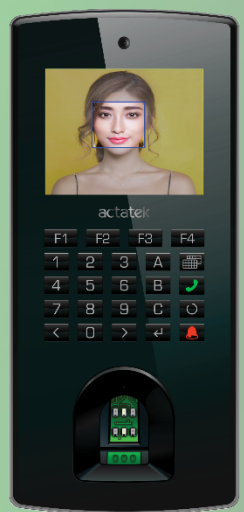
**Mobile Access & Remote Management**



**On-premise / Cloud Server**



**Network Switch**



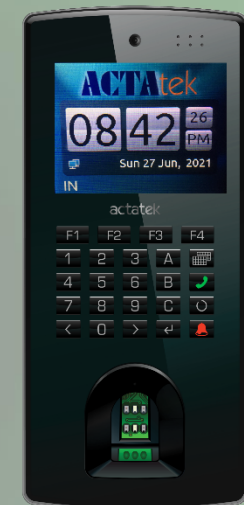
**Optional High Availability Application Server**



**Optional 3rd Party HRMS Server Integrated with AMS API/AMS DB**



**Option 02 Using WiFi or 5G**



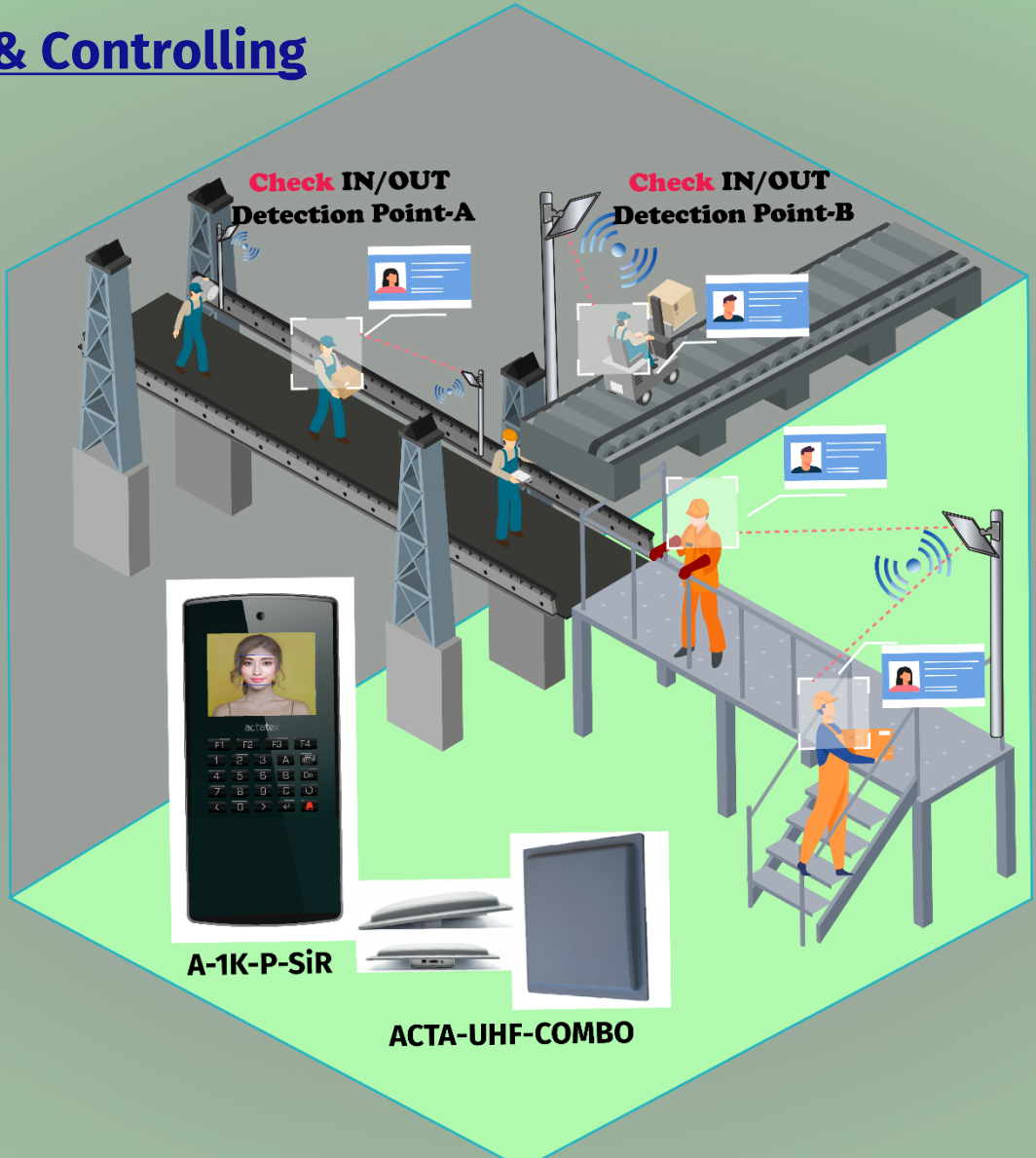
**WiFi Router**

# ACTatek Personnel Tracking & Controlling

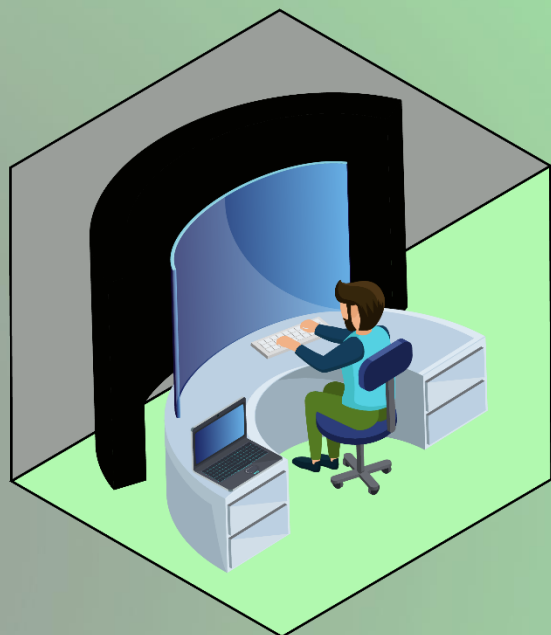


Each person is given a wearable RFID tag that contains a unique ID and other information. The tag can be attached to a badge, wristband, or smart card

Admin can also set access rules for each user based on anti-passBack, schedule access and more. User access depends on their profile settings



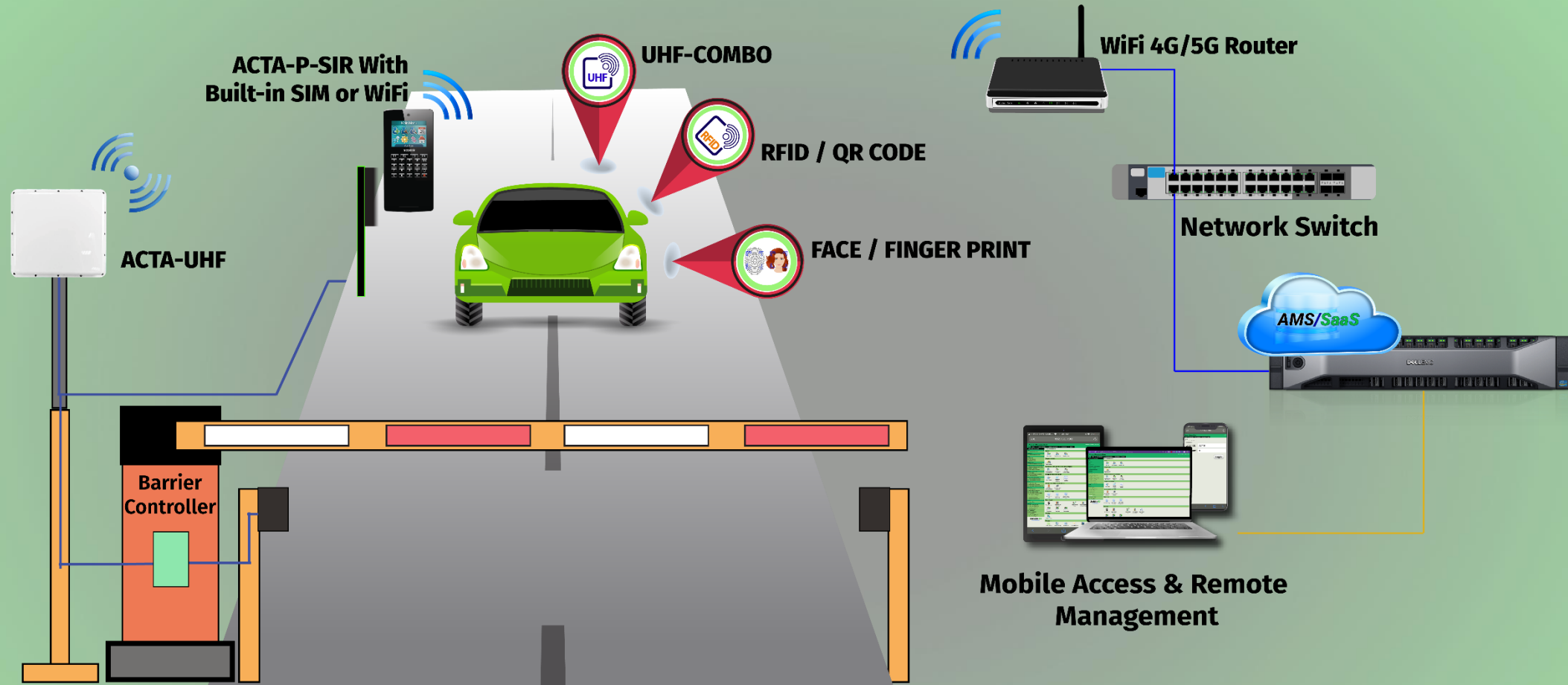
The UHF readers scan the tags as they come in range and capture their ID and location data.



The data collected by the readers is transmitted to AMS software or a central server that stores and analyzes the data.

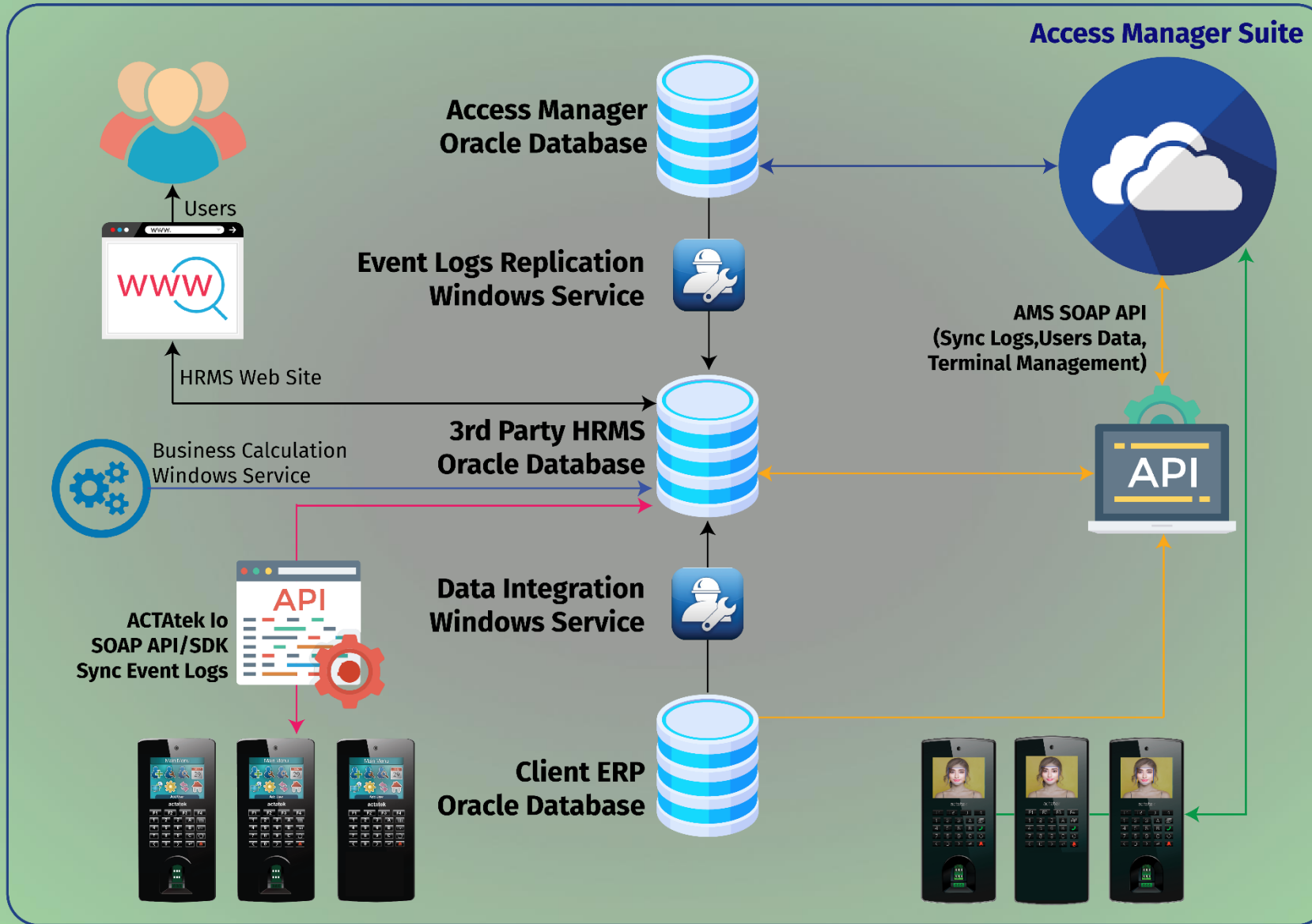
The AMS software can provide real-time or historical reports on the location, movement, and status of people. The AMS can also send alerts or notifications when certain events occur, such as people entering or leaving a restricted area.

## Parking Management System Solutions



ACTA UHF has a built-in high sensitivity 8dbi antenna, and by using an RS485 serial communication interface bits interface to work with the ACTAtek device, it can remotely connect and communicate with terminal equipment. It can also be applied to parking lot management and including: large shopping malls, commercial office buildings, airports, stadiums, and other relevant management.

## Integration With 3rd party Application



## ACTatek Comparison With Competitor Products

	<b>ACTatek &amp; AMS (on prem &amp; SaaS)</b>	<b>Competitor</b>
<b>Software</b>	<b>Access Manager Suite – integrated open connectable &amp; compatible multi-application ID management platform</b>	<b>Separate Access Control and TA licenses purchased separately</b>
	<b>Unlimited devices and users management</b>	<b>Maximum 1,000 devices</b>
	<b>TLS 1.3 256 bit encryption for cyber protection with VAPT report</b>	<b>No TLS support</b>
	<b>SQL, MySQL, Azure SQL, Oracle database support</b>	<b>MariaDB, SQL database support</b>
	<b>Open secured cross platform SOAP API</b>	<b>Proprietary API</b>
<b>Hardware</b>	<b>IoT device(web-based), access by any browsers e.g. Chrome, Edge</b>	<b>IP-based , Wiegand-based</b>
	<b>TLS 1.3 256bit encryption with periodic updates</b>	<b>At best TLS 1.2 128bit encryption only</b>
	<b>Impact proof and scratch proof fingerprint sensor, IK10 casing</b>	<b>Fragile Fingerprint sensor , IK6-8 casing</b>
	<b>Cyber security protected Linux OS</b>	<b>Android prone to rooting, hacking, Log4j etc</b>
	<b>Wired, LAN/POE, and Wireless, WiFi &amp; Sim Card</b>	<b>LAN, POE</b>
	<b>SIP intercom, IP video camera</b>	<b>Not available</b>
<b>Maintenance</b>	<b>Online trouble shoot; features, functions and security upgrades</b>	<b>On site &amp; online</b>
	<b>Minimum 10 years product cycle</b>	<b>A few years</b>

# How To Choose Your ACTatek Model



**SAMPLE MODELS**

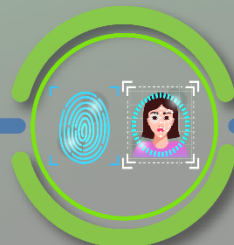
- A-1K-C
- A-3K-FLI-C
- A-5K-FSYA-C
- A-20K-FSE-C-4
- A-10K-FSM-C-P
- A-50K-FA-FST-P
- A-30K-FA-FSHP-I
- A-100K-FA-FST-W-I

**TOTAL NUMBER OF USERS**



USERS	PART NUMBER
• 1000	- 1K
• 3000	- 3K
• 5000	- 5K <input checked="" type="checkbox"/>
• 10,000	- 10K
• UP TO 100K	- 100K

**BIOMETRICT CREDENTIALS**



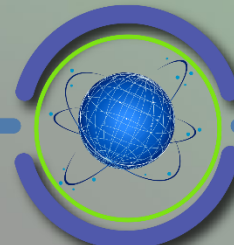
BIOMETRICT	PART NUMBER
• FACE	- FA <input checked="" type="checkbox"/>
• FINGERPRINT	- F/FLI

**SMART CARD CREDENTIALS**



CARD TYPE	PART NUMBER
• HID PROXIMITY	- SHP
• HID ICLASS	- SY <input checked="" type="checkbox"/>
• MIFARE	- SM
• DESFIRE	- SH2MA
• HID/MIFARE/DES	- ST
• SONY FELICA	- SV
• EM CARD	- SE
• EM/HID PRO	- SU
• UHF/UHF COMBO	- SIR
• ALL IN ONE MODULE	- SX

**NETWORK CONNECTIVITY**

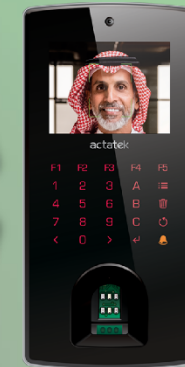


NETWORK	PART NUMBER
• LAN	- - <input checked="" type="checkbox"/>
• POE	- P
• WIFI	- W <input checked="" type="checkbox"/>
• 3G/4G/5G	- 3/4/5

**OPTIONAL FEATURES**



FEATURE	PART NUMBER
• INTERCOM	- I
• BODY TEMPRATURE	- TEMSEN
• IP CAMERA	- C <input checked="" type="checkbox"/>



**A-5K-FSHI-W-C**



Choose Your Own Built-In Features and Save Money



# Thank You

# ACTAtek



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