

AEGIS IoT

Intelligent Industrial Solutions
Product Overview

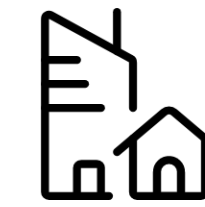
AEGIS IoT Enterprise Suite



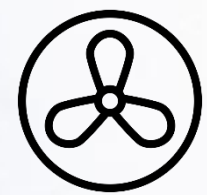
Manufacturing



Retail & Supermarkets



Residential

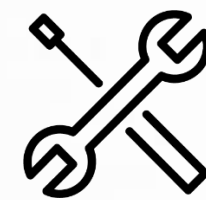


HVACR

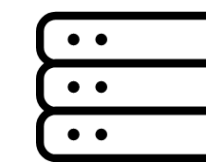
AEGIS IoT



Food Production &
Manufacturing



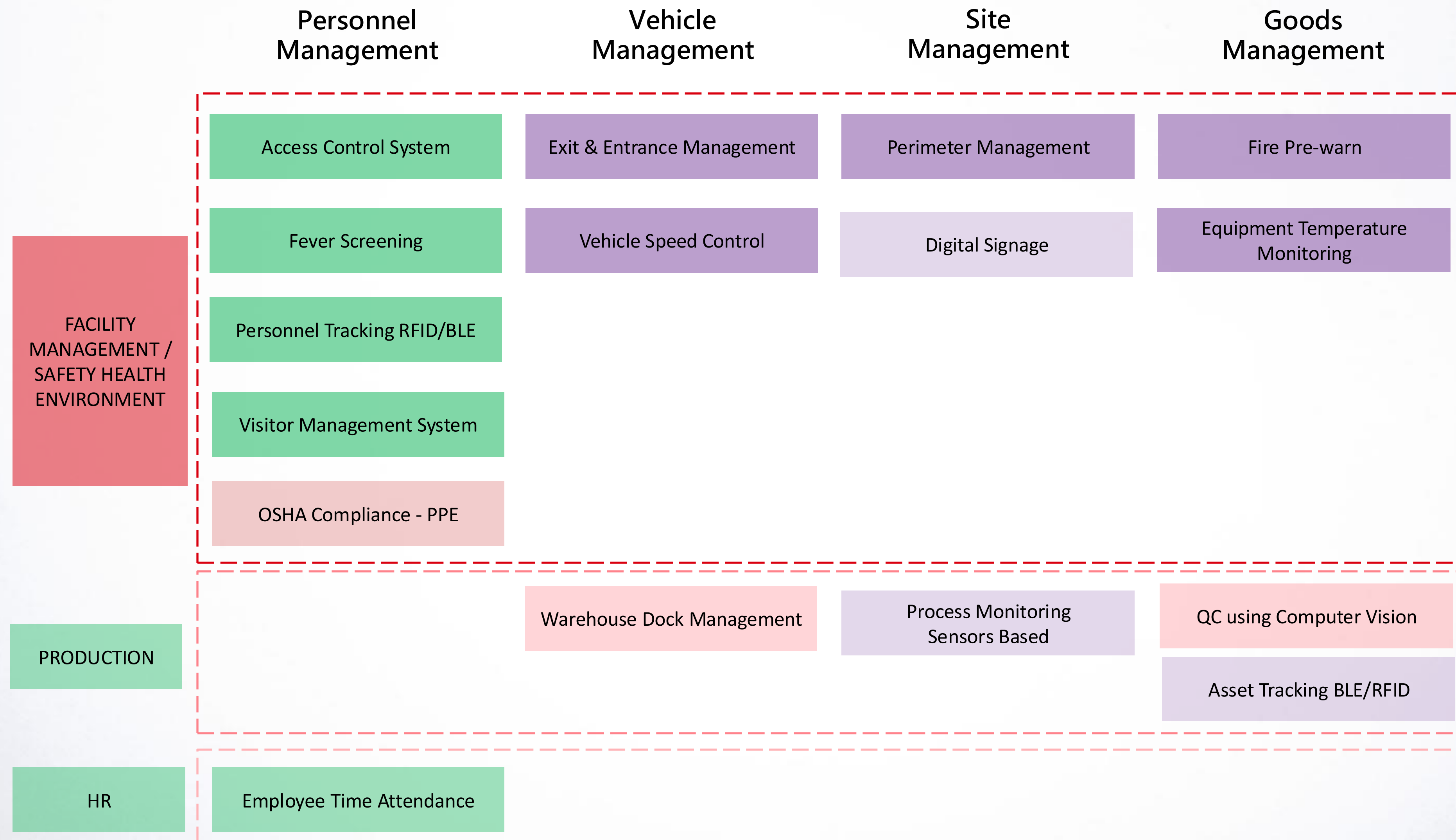
Asset Management



Data Center



PRODUCT DETAILS



AEGIS IoT Industrial Thermography Solutions

Product Overview



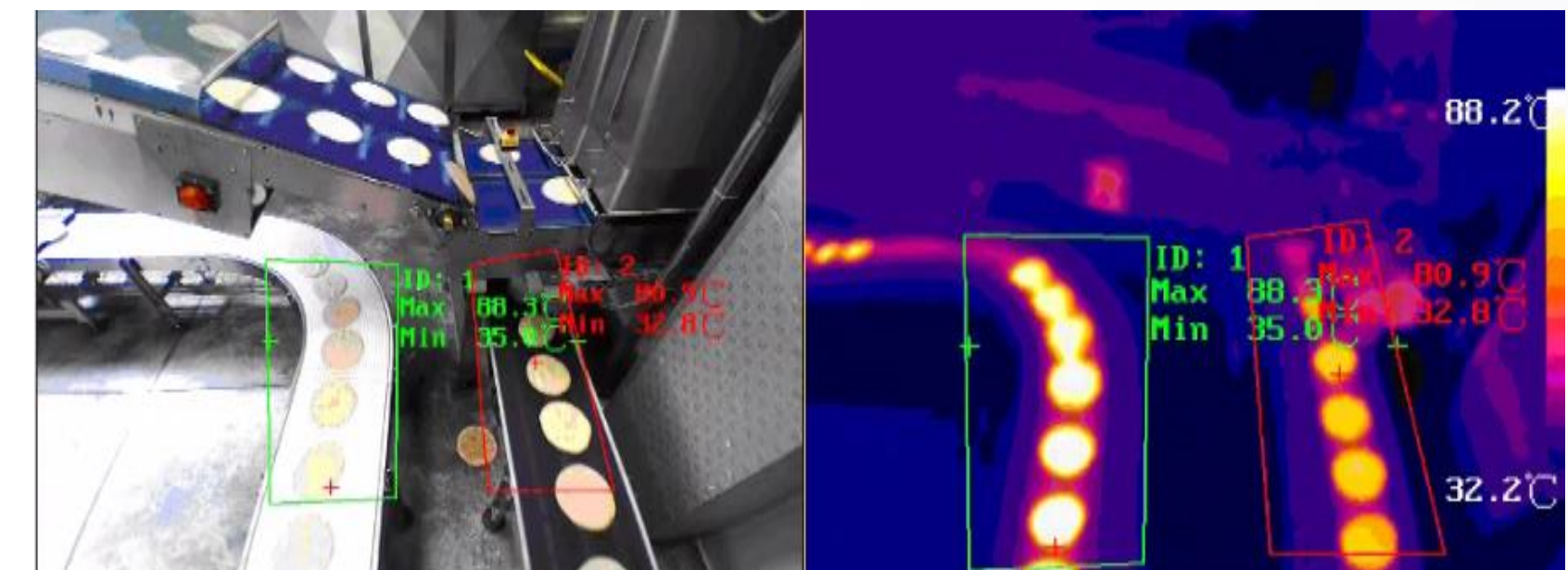
What is INDUSTRIAL THERMOGRAPHY?

Leverage **thermal imaging** to scan and visualize the **temperature distribution of the surface** of target objects **without contact**, making it possible to do image analysis and draw conclusions about the properties and condition of the target objects. Industrial thermography is of great significance in preventive maintenance as well as in production monitoring.



Preventive Maintenance

Industrial thermography is a valuable technique for detecting loose or corroded connections, load imbalances and overloads, which are the reasons for a temperature rise in equipment or machinery.



Product Quality Control

Industrial thermography can detect the temperature change on the surface of extremely hot or cold, voltage-carrying and inaccessible objects, so that products with cracks, flaws and other faults can be sorted out at early stage.

Solution Highlight

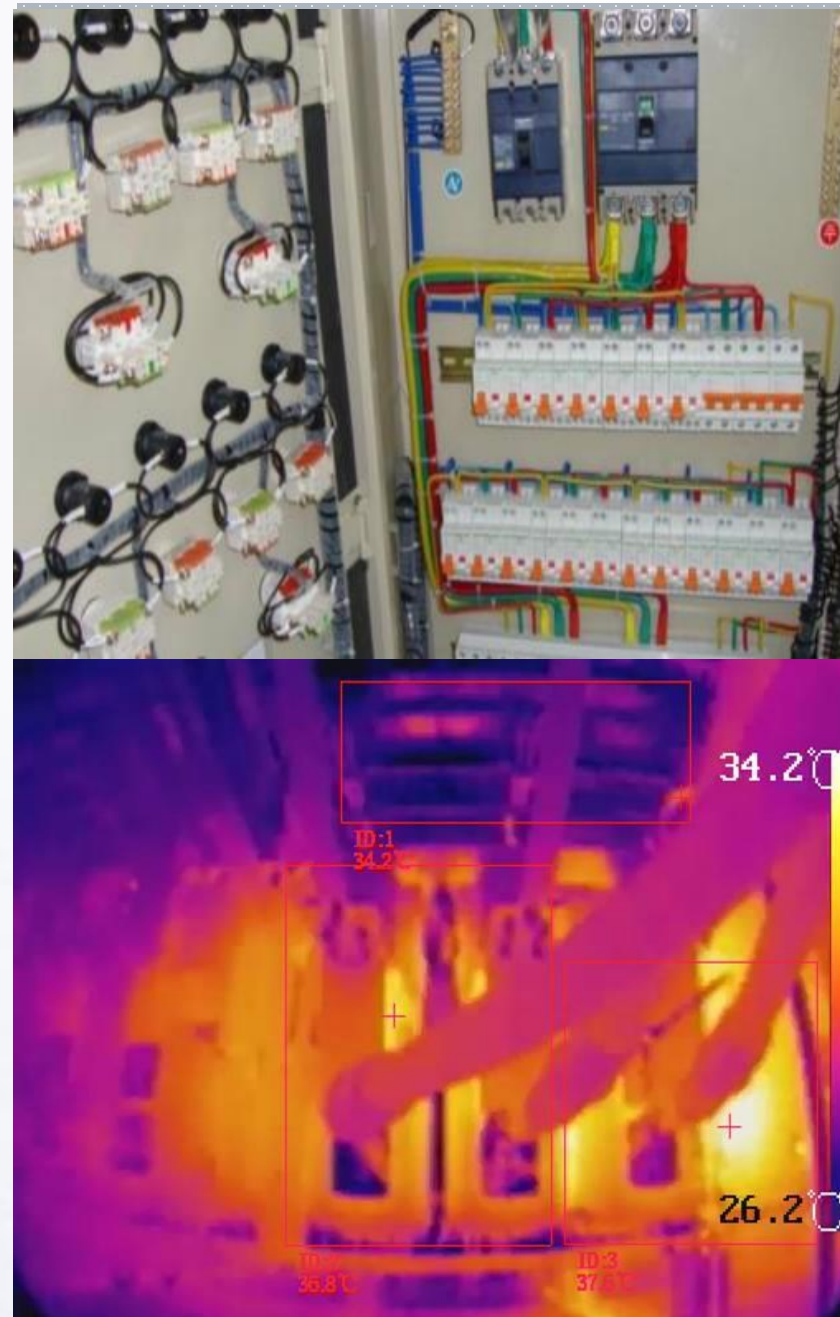
1. Online, 24-hour, real-time alarm, strong environmental adaptability .
2. Non-contact temperature measurement, not affect the normal working of monitor target.
3. Visualized temperature measurement, help double-checking problem and improve problem solving efficiency.
4. Flexible measurement rules and high temperature/low temperature/temperature difference alarms, help in more sensing methods.
5. View powerful analytics and assets status via **AEGIS IoT Analytics**

AEGIS IoT
IOT-THERMAL-100

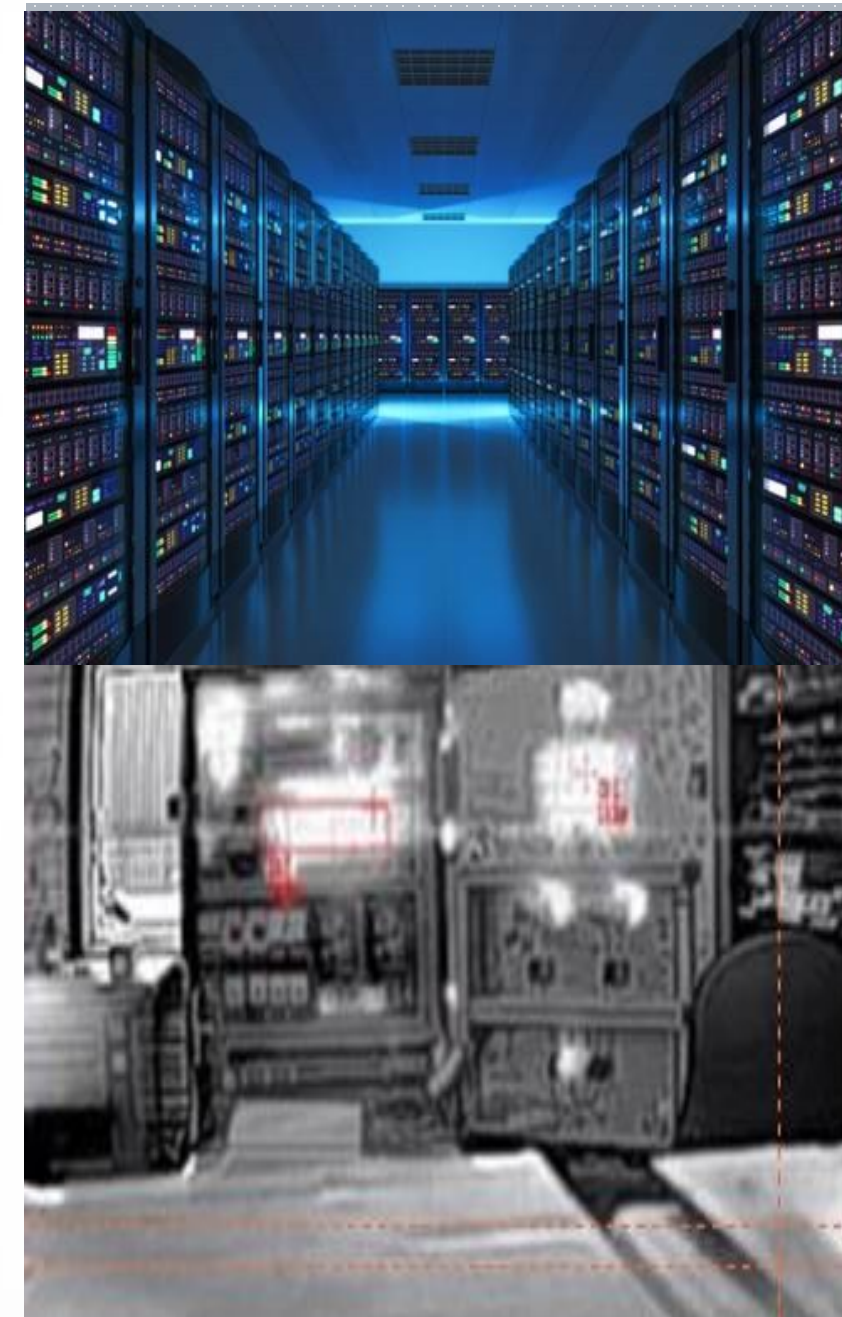


AEGIS IoT Analytics

Thermographic cube cameras are suitable for the scenarios require **accurate temperature measurement in narrow space or short distance**. Customer may need temperature data more than thermal image.



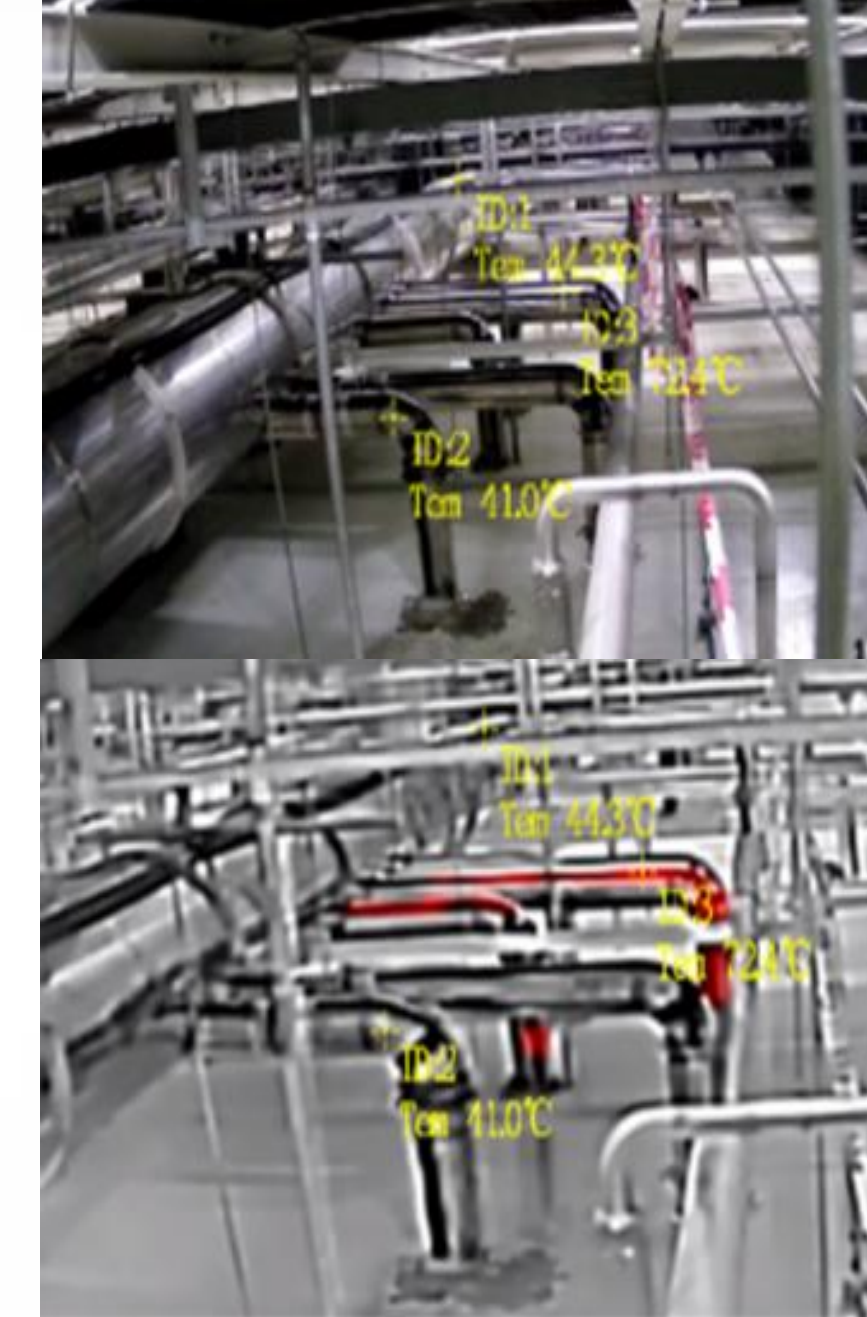
Electrical Cabinet



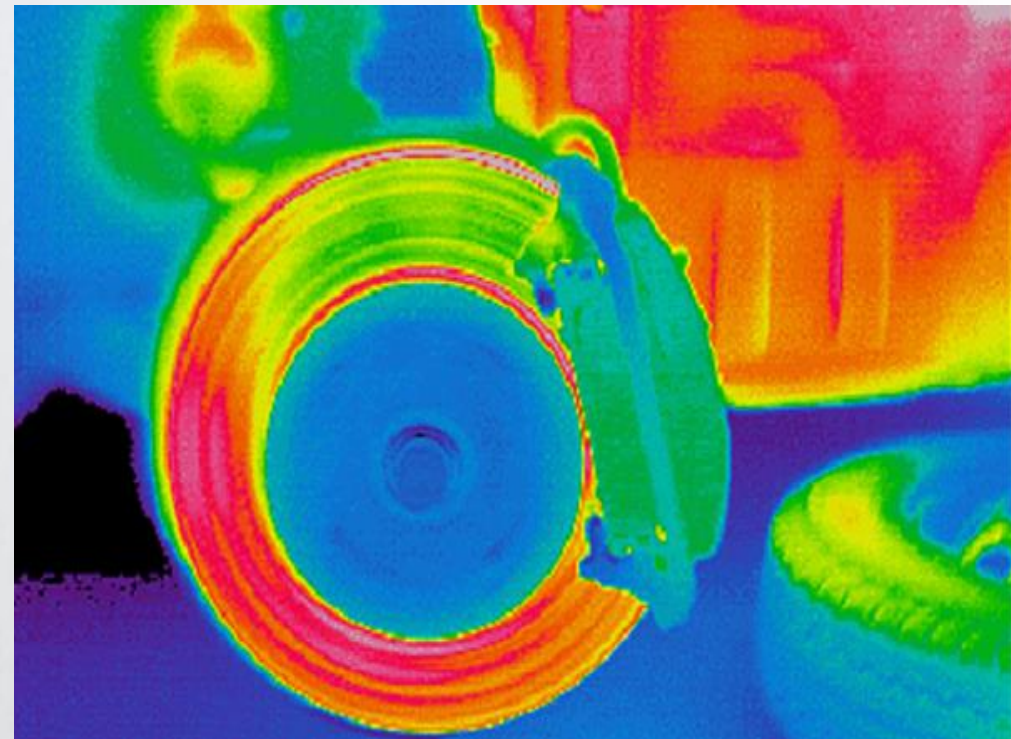
Datacenter



Manufacturing
Process Control



Industrial Core
Facilities



Motor Monitoring

Motor becomes overheat before failure occurs



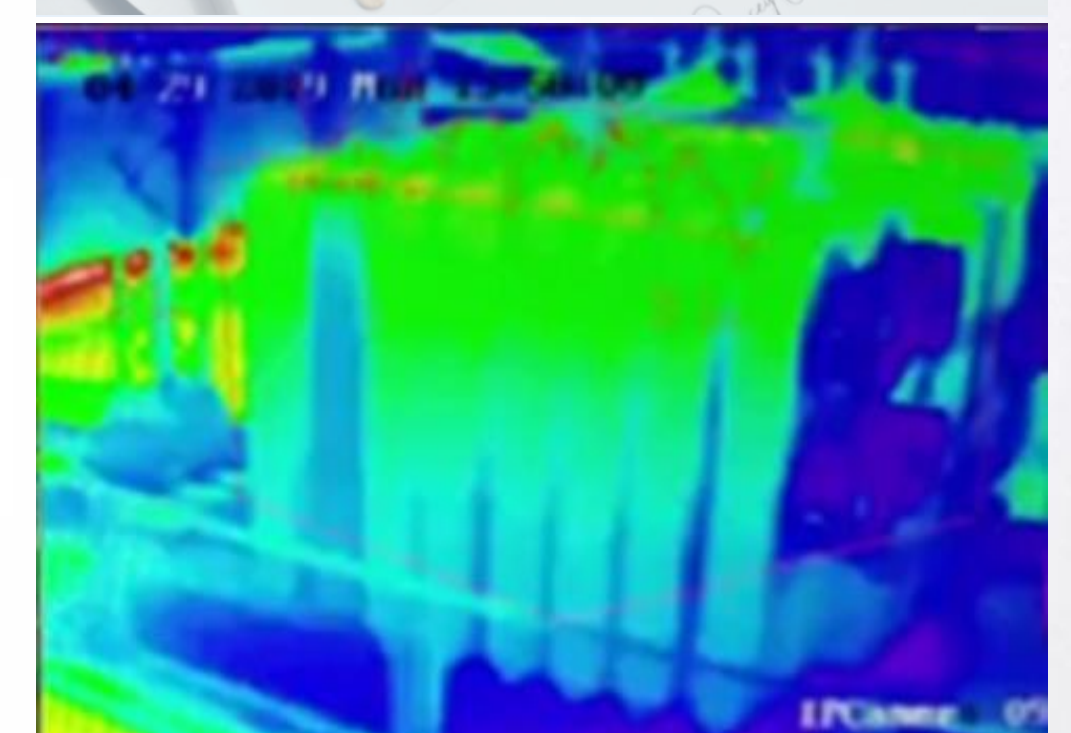
Electrical Equipment

Overheat of air condition motor, distribution cabinet, etc.



Manufacturing Process

Automotive testing in a non-destructive way for quality control



Food Production

required accurate temperature control during food production

Preventive Maintenance

Product Quality Control

AEGIS IoT Analytics Solutions

Product Overview



AEGIS IoT Analytics

Data Control Systems & Analytics

AEGIS IoT Analytics platform visualize and analyze real-time data collected by various sensory node, accessible 24/7 to give insight of your critical assets and infrastructure

AEGIS IoT Analytics platform centralize node and sensory data into an easily accessible cloud platform. Accessible anywhere anytime, AEGIS IoT Analytics give your organization's technical team immediate and accurate data to make informed decisions.



Features:

- 24/7 Operation
- User friendly dashboard portal
- Cloud hosted
- Customizable Alerts
- Machine Learning based anomaly detection

Benefits:

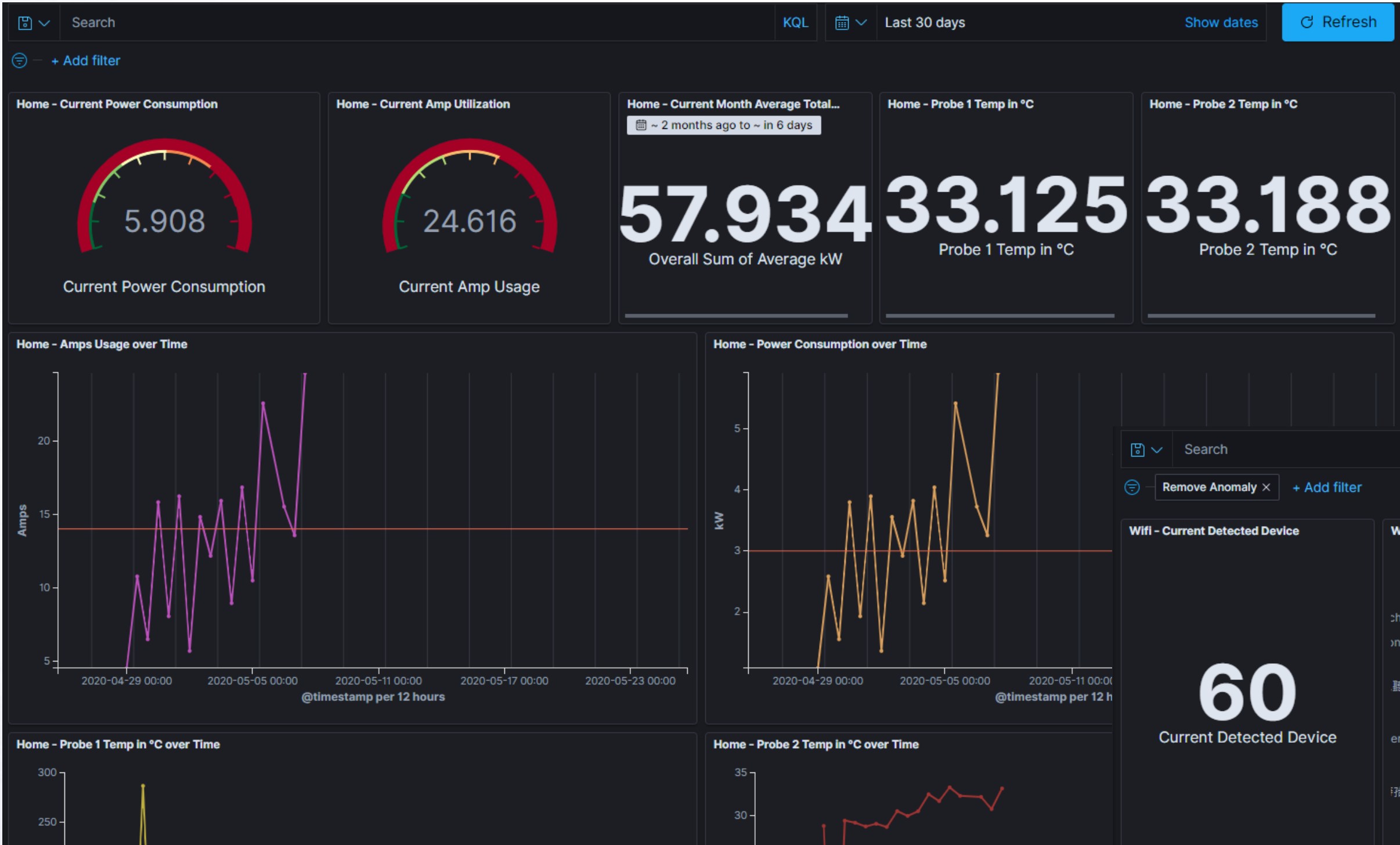
- Improve asset efficiency
- Improve productivity
- Predictive maintenance
- Preventive maintenance planning
- Avoid costly system interruption

Request a demo:

- Contact us to schedule a free demo:
- sales@springtech.ai
- +(60) 3-58870624

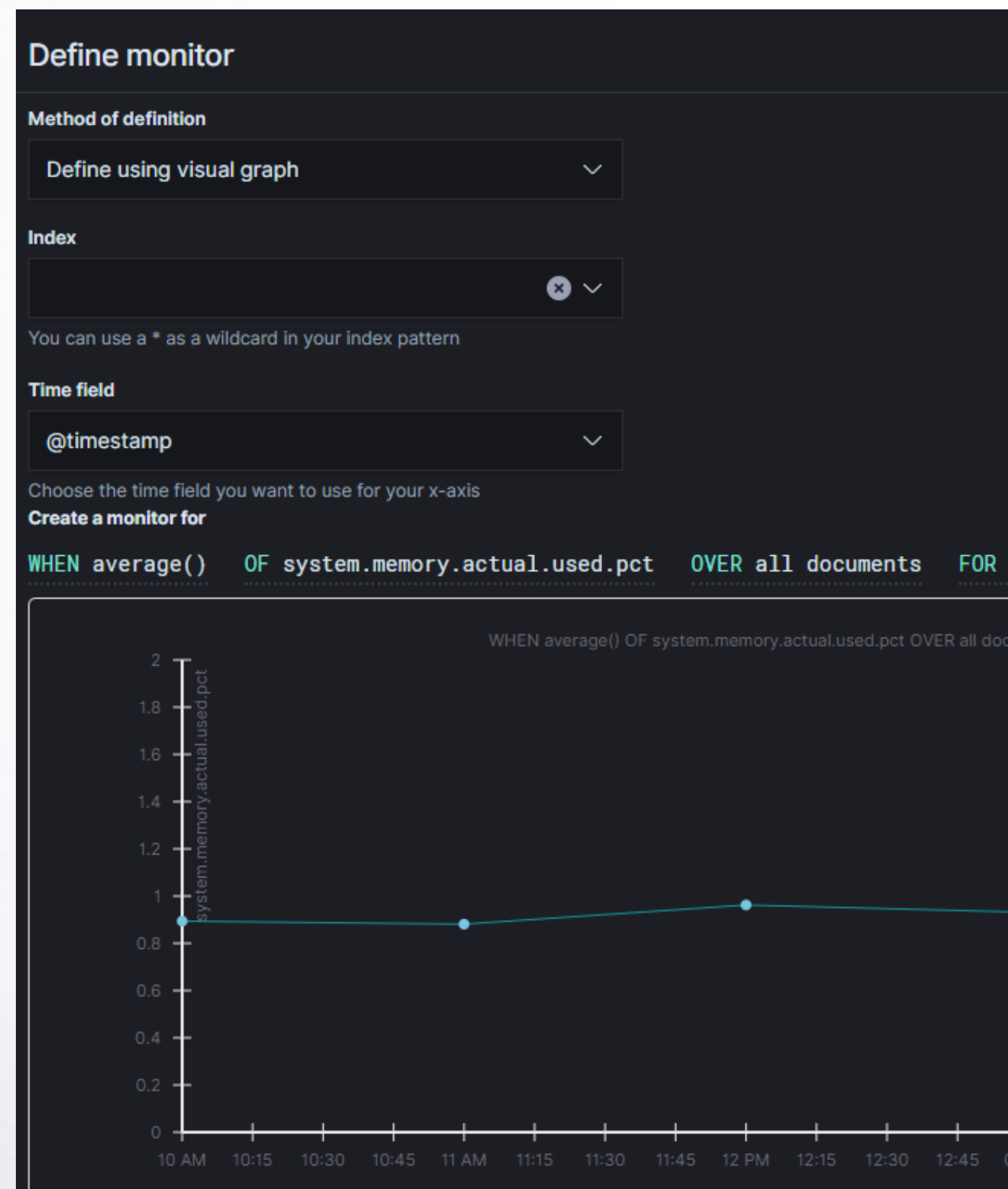


APPLICATION



Comprehensive alarm, anomaly detection and reporting

AEGIS IoT Analytics alarm, anomaly detection and reporting suite provides a powerful, easy-to-use event monitoring and alerting system, enabling you to monitor your data and send notifications automatically to your stakeholders

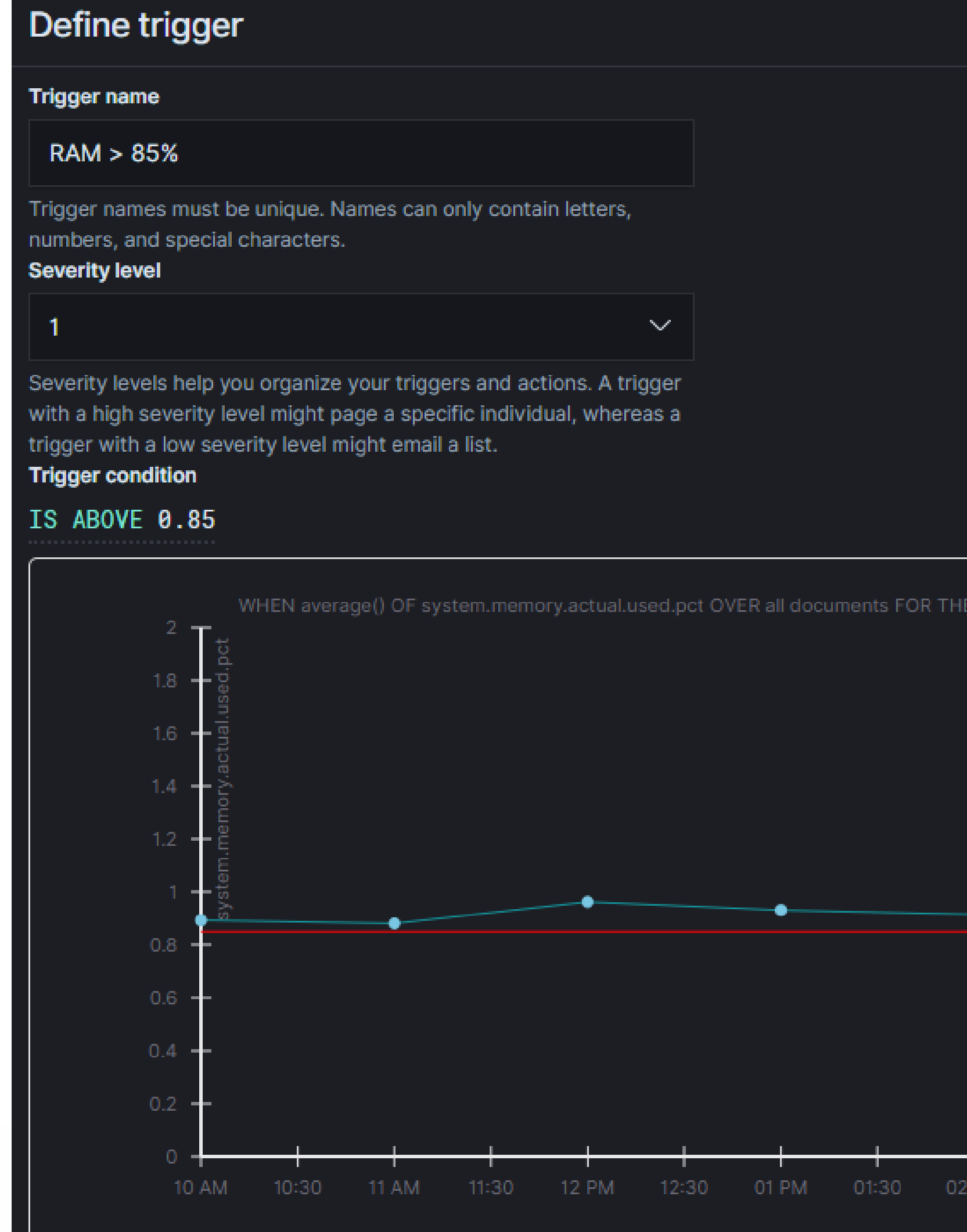


Event Monitors

With AEGIS IoT Analytics alerting module, you can easily create monitors using the in-built UI with a simple visual editor. This gives you the flexibility to query the data most critical to you and receive alerts on it.

Customize multiple alert conditions

Trigger conditions allow you to define the alerting threshold and severity. Each monitor can have multiple trigger conditions, enabling you to query the data once and generate the appropriate action. Triggers, like monitors, are highly customizable and can be created using a simple visual editor



Configure actions

Custom webhook: Webhook

Action name

Webhook

Names can only contain letters, numbers, and special characters

Destination

Webhook - (Custom webhook)

Message [Info](#)

Monitor {{ctx.monitor.name}} just entered alert status. Please investigate the issue.

- Trigger: {{ctx.trigger.name}}
- Severity: {{ctx.trigger.severity}}
- Period start: {{ctx.periodStart}}
- Period end: {{ctx.periodEnd}}

Embed variables in your message using Mustache templates. [Learn more about Mustache](#)

Message preview

Monitor RAM CHECK just entered alert status. Please investigate the issue.

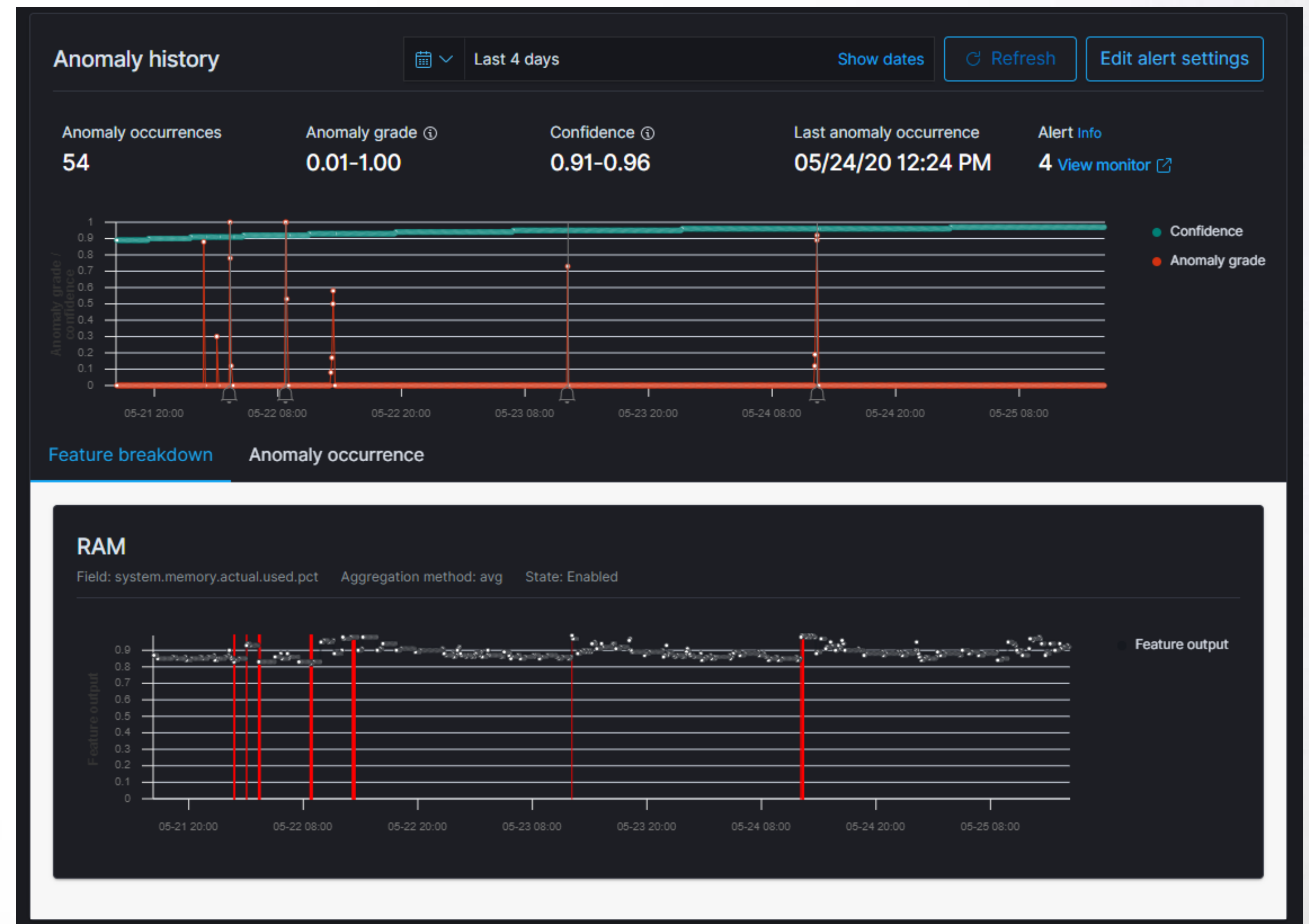
- Trigger: RAM > 85%
- Severity: 1
- Period start: 2020-05-25T08:08:42Z
- Period end: 2020-05-25T08:09:42Z

Get notified

AEGIS IoT provides multiple alerting options with built-in integrations for webhook and Slack. Webhook support integrates with your existing monitoring infrastructure or any third-party system. You can format alerts using Mustache to embed relevant information in the notifications to ensure your team knows what to do when they get them.

Anomaly Detection

AEGIS IoT anomaly detection feature identifies data patterns during ingestion and detect outliers in real-time using the Random Cut Forest (RCF) algorithm. RCF is an unsupervised machine learning algorithm that computes an anomaly score for each incoming data point. A detector can discover anomalies across one or more features. Anomaly detection is integrated with our Alerting plugin to trigger a notification whenever a detector identifies an anomaly.



AEGIS IIoT Solutions

Product Overview

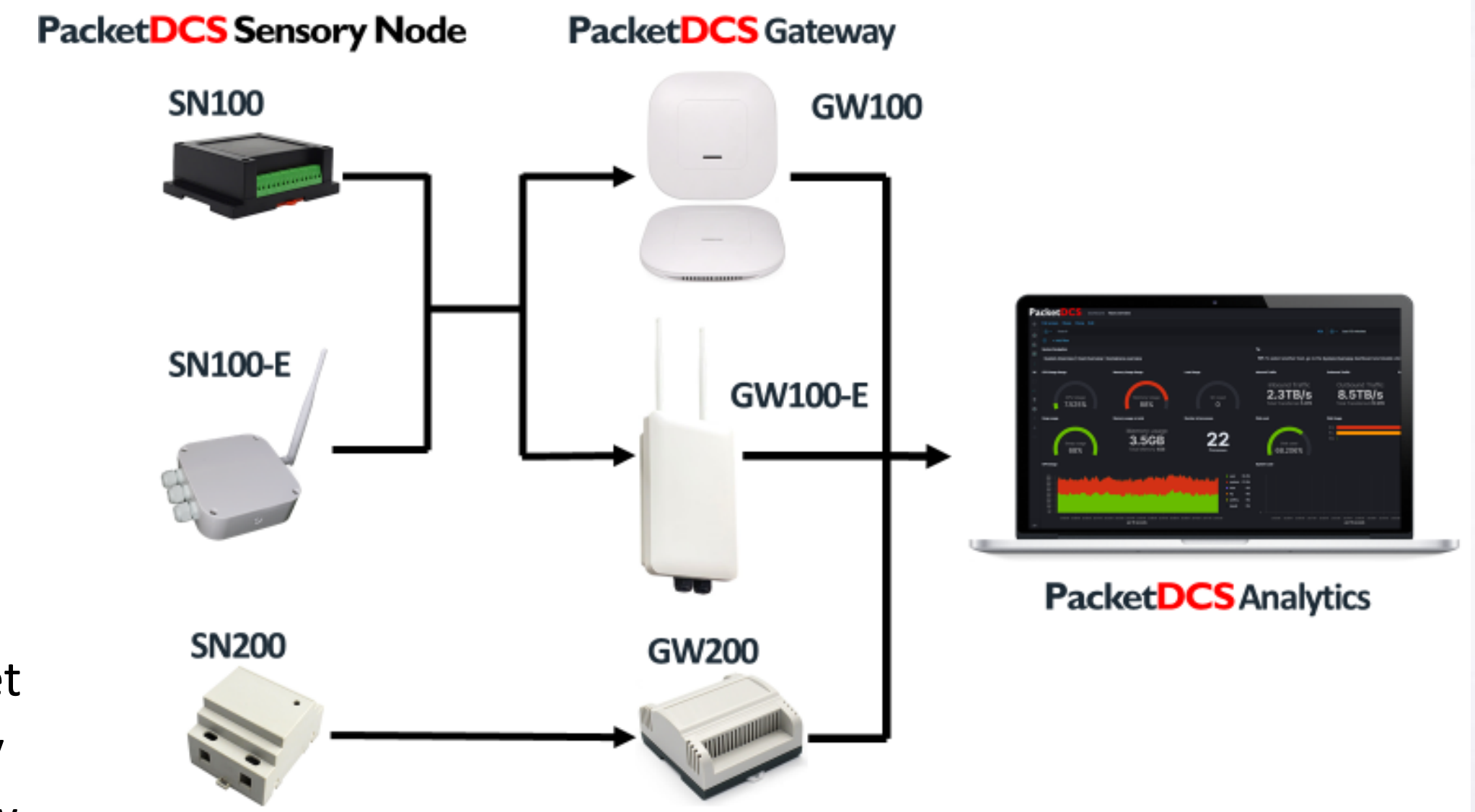


AEGIS IIoT & Solutions

Data Control Systems & Analytics

AEGIS IoT IIoT & solutions are the latest iteration of big data capable analytics platform brought to you by AEGIS IoT.

- The 100 and 200 GW series gateways provide the ultimate pairing to interface with the SN series sensory node control unit.
- Interconnected with the latest wireless communication protocol LoRa, AEGIS IoT solutions outclassed traditional wireless communication protocol in terms of range and efficiency.
- At the core of the solutions, the AEGIS IoT Analytics platform gather and interpret the large amount of data collected from various sensory node arrays into visually stunning and stimulating real life representation of information collected to allow customer to make informed decision quickly to respond to any potential issues before it escalates.



Industrial Grade IIoT

The 100 and 200 GW series gateways provide the ultimate pairing to interface with the SN series sensory node control unit. Interconnected with the latest wireless communication protocol LoRa, AEGIS IoT solutions outclassed traditional wireless communication protocol in terms of range and efficiency. AEGIS IoT SN series sensory node control unit also supports several standards and proprietary interface and protocol including RS232, RS485, serial and ModBus.

GW100 Range Gateway

The gateway powering the underlaying wireless mesh communication by facilitating communications between nodes.

- For use with SN100 series
- LoRa wireless mesh
- Interconnect with Wi-Fi
- Up to 1KM range
- Offline data logging
- Automatic data resync



SN100 Sensory Node

Multi interface sensory control unit to fulfill your every monitoring needs.

- For use with GW100 series
- LoRa wireless mesh
- 1KM range
- Low power consumption
- DIN Mounted



GW200 Range Gateway

Compact high-performance gateway powering the underlaying wireless communication infrastructure.

- For use with SN200 series
- LoRa wireless mesh
- Interconnect with Wi-Fi
- 500m range
- Offline data logging
- Automatic data resync



GW100-E Range Gateway

High powered and IP67 rated ruggedized mesh gateway for your most demanding needs.

- For use with SN100 series
- LoRa wireless mesh
- Interconnect with Wi-Fi
- IP67 Rated
- Up to 22KM
- Offline data logging
- Automatic data resync



SN100-E Sensory Node

Multi interface sensory control unit to fulfill your every monitoring needs.

- For use with GW100 series
- LoRa wireless mesh
- IP67 Rated
- 1KM range
- Low power consumption
- DIN Mounted



SN200 Sensory Node

Compact and low powered multi-interface sensory control unit to fulfill your every monitoring needs.

- For use with GW200 series
- LoRa wireless
- 500m range
- Low power consumption
- DIN Mounted



AEGIS IoT Cloud ESL Solutions

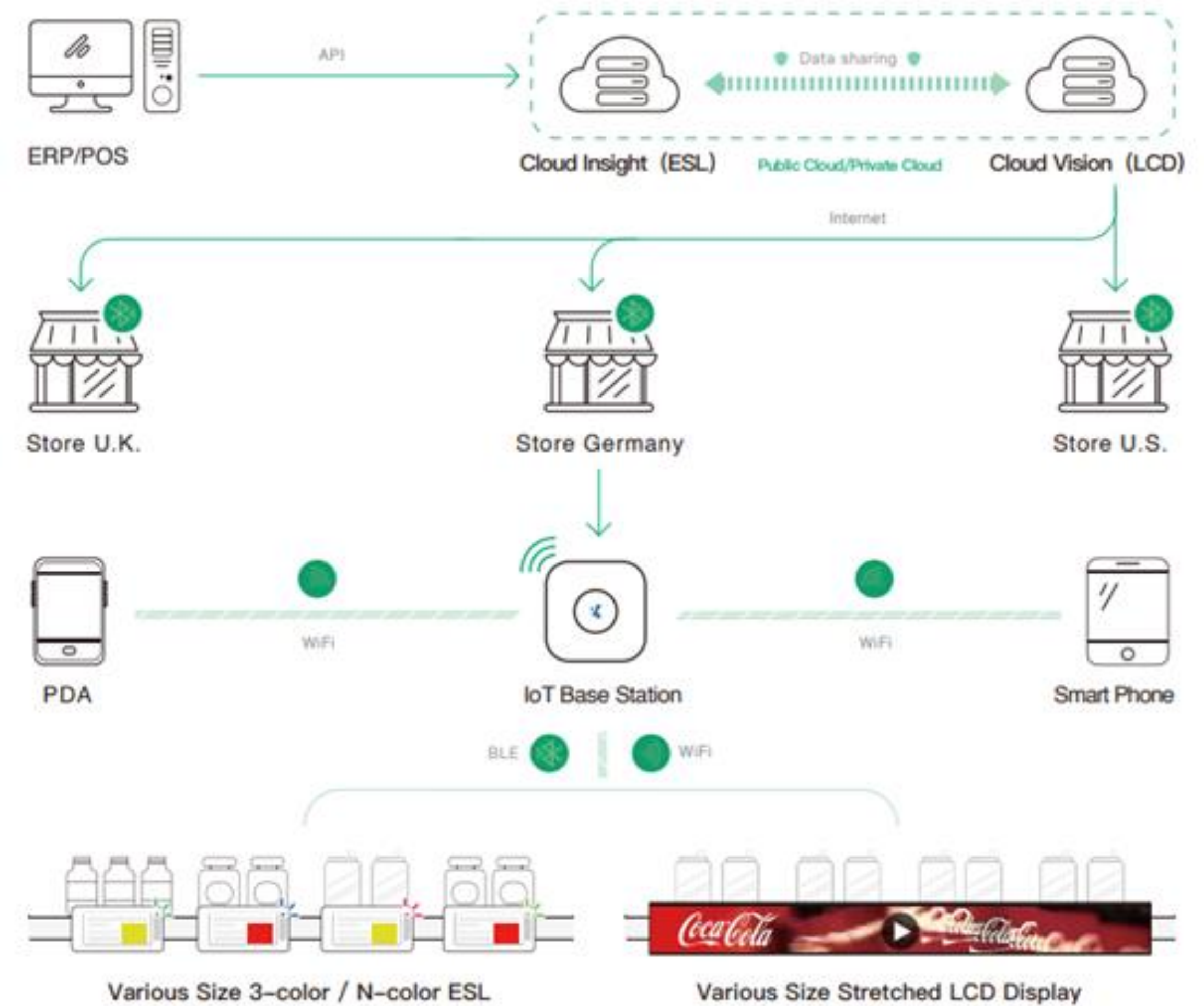
Product Overview



Cloud ESL System

Electronic Shelf Label

New generation of ESLs enable stores necessary functions without installing servers. Combining Bluetooth, Wi-Fi, and Cloud Technology to most valuable solutions.



ESL Catalog

ESL-15S | 1.54 " Screen

Dot Matrix EPD Black/White/Red(Yellow)



Size : 44.5*35.9*11.7mm
Screen : 27*27mm
Operate temperature : 0-40C
Resolution : 200*200 (high resolution)



ESL-21S | 2.13 " Screen

Dot Matrix EPD Black/White/Red(Yellow)



Size : 70*34.5*11.5mm
Screen : 48.6*23.7mm
Operate temperature : 0-40°C
Resolution : 122*250 (high resolution)



ESL-26SF | 2.66 " Screen

Dot Matrix EPD Black/White



Size : 83*41*12.4mm
Screen : 60.09*30.7mm Operate
temperature : -25-25C
Resolution : 152*296



ESL-27S | 2.7 " Screen

Dot Matrix EPD Black/White/Red(Yellow)



Size : 77.7*50*11.7mm
Screen : 57.29*38.19mm
Operate temperature : 0-40C
Resolution : 176*264

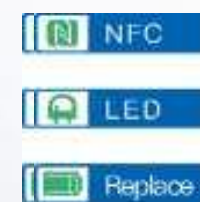


ESL-21SF | 2.13 " Screen

Dot Matrix EPD Black/White



Size : 70*36*12.5mm
Screen : 48.55*23.7mm
Operate temperature : -25-25°C
Resolution : 104*212



ESL-26S | 2.66 " Screen

Dot Matrix EPD Black/White/Red(Yellow)



Size : 83*41*11.1mm
Screen : 60.09*30.7mm
Operate temperature : 0-40C
Resolution : 152*296



ESL-29S | 2.9 " Screen

Dot Matrix EPD Black/White/Red(Yellow)



Size : 90*41*11.1mm
Screen : 66.9*29.06mm
Operate temperature : 0-40C
Resolution : 128*296



ESL-37S | 3.7 " Screen

Dot Matrix EPD Black/White/Red(Yellow)



Size : 104*56.4*11.7mm
Screen : 81.54*47.04mm
Operate temperature : 0-40C
Resolution : 416*240



ESL Gateway Catalog

High Scalability

Unlimited labels can be managed by single base station, along with smooth updating experience

Superior Coverage

Up to 700 m² indoor coverage per base station and 40 meters range in non-obstacle environment

Easy Installation

Plug and play installation, simply connect BST to Internet, auto activation to cloud, auto connect to all ESL and remote via Bluetooth

Safety & Stability

AES (Advanced Encryption Standard) of 128-bit cipher highly secures the system with safety and stability

Intelligent System

Designed of smooth wireless roaming, auto BST selection, load-balancing and channel hopping advanced wireless features



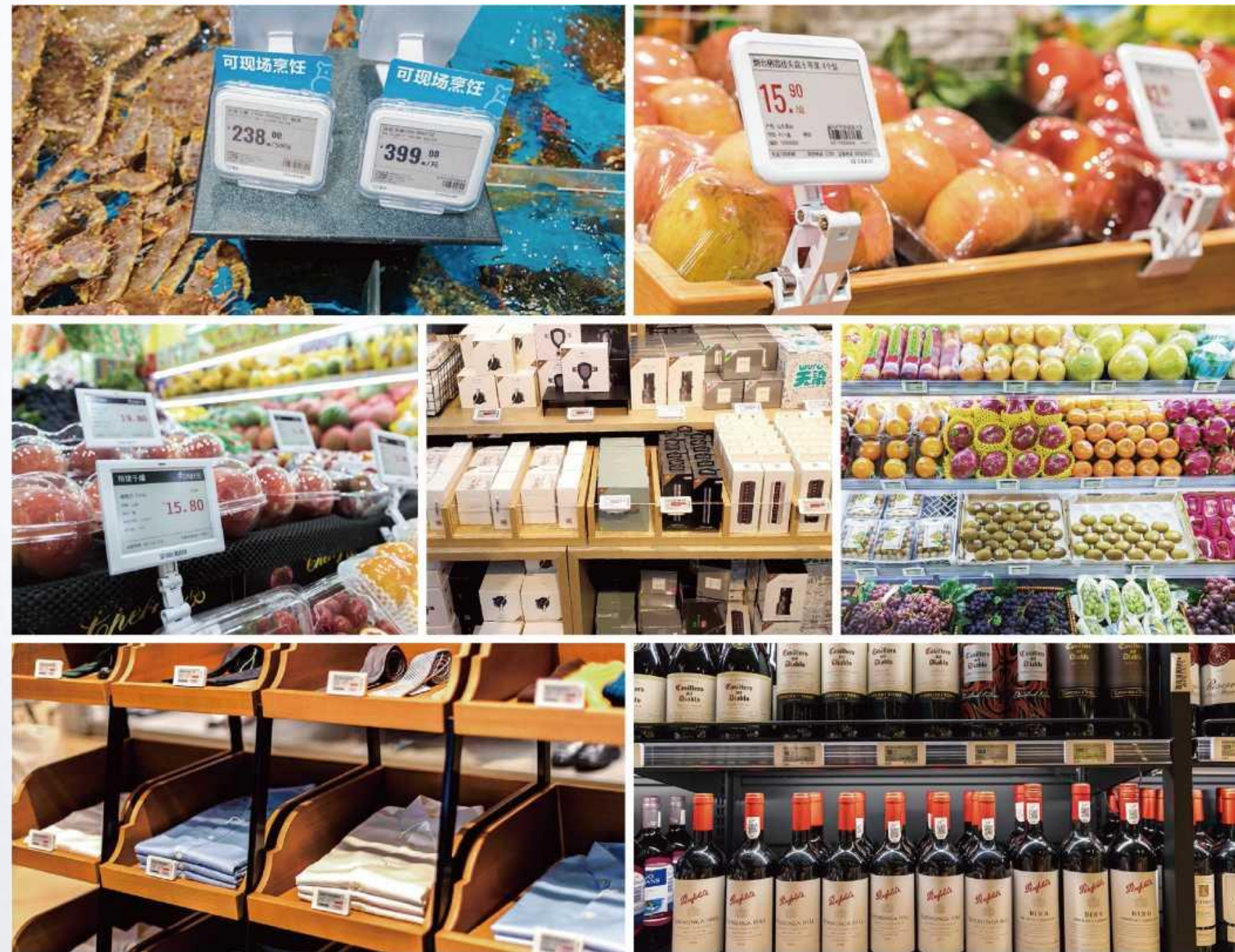
Product Specification	
Dimension	180 mm x 180 mm x 33 mm
Weight	500g
Power Supply	48V PoE
Operating Temperature	-10°C ~ 60°C
Frequency	2.4GHz + 5GHz
WiFi Speed	1167Mbps
Coverage	Indoor 30m radius

INDUSTRIES & CASE STUDY > New Retail

To Boost Sales and Increase Margins



One of the reasons that big retail chain stores who can put more resources on sales and marketing is that they have equipped with ESLs, and integrated the smart labels and IoT technology with their own system: in seconds, all the labels are updated with the latest data from head office without a failure. ESL triggers a happy journey for customers who want to be more engaged into the shopping environment and benefited from deeper interactions with stores.

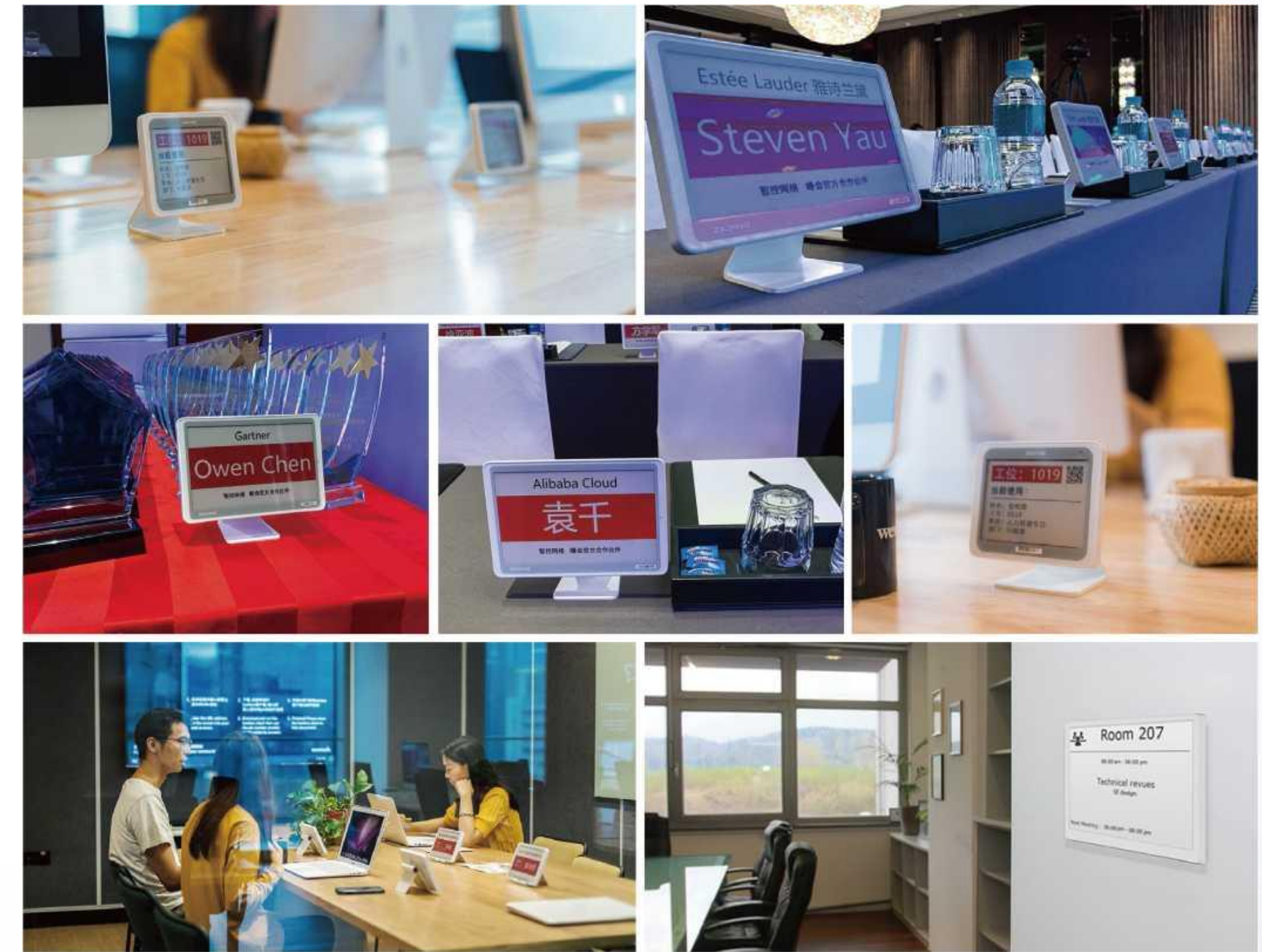


Digital Signage

To Cut Operate Cost and Lift Efficiency



Easy to deploy and adaptable to both new built and existed buildings without much efforts. This environment friendly solution has been successfully applied in any office, hotel, hospital and other spaces where signage has become more efficient through digital means. As it can be set as on any surface and characterized an ultra-low energy consumption, and is considered as the alternative of paper, more expensive and wired devices.

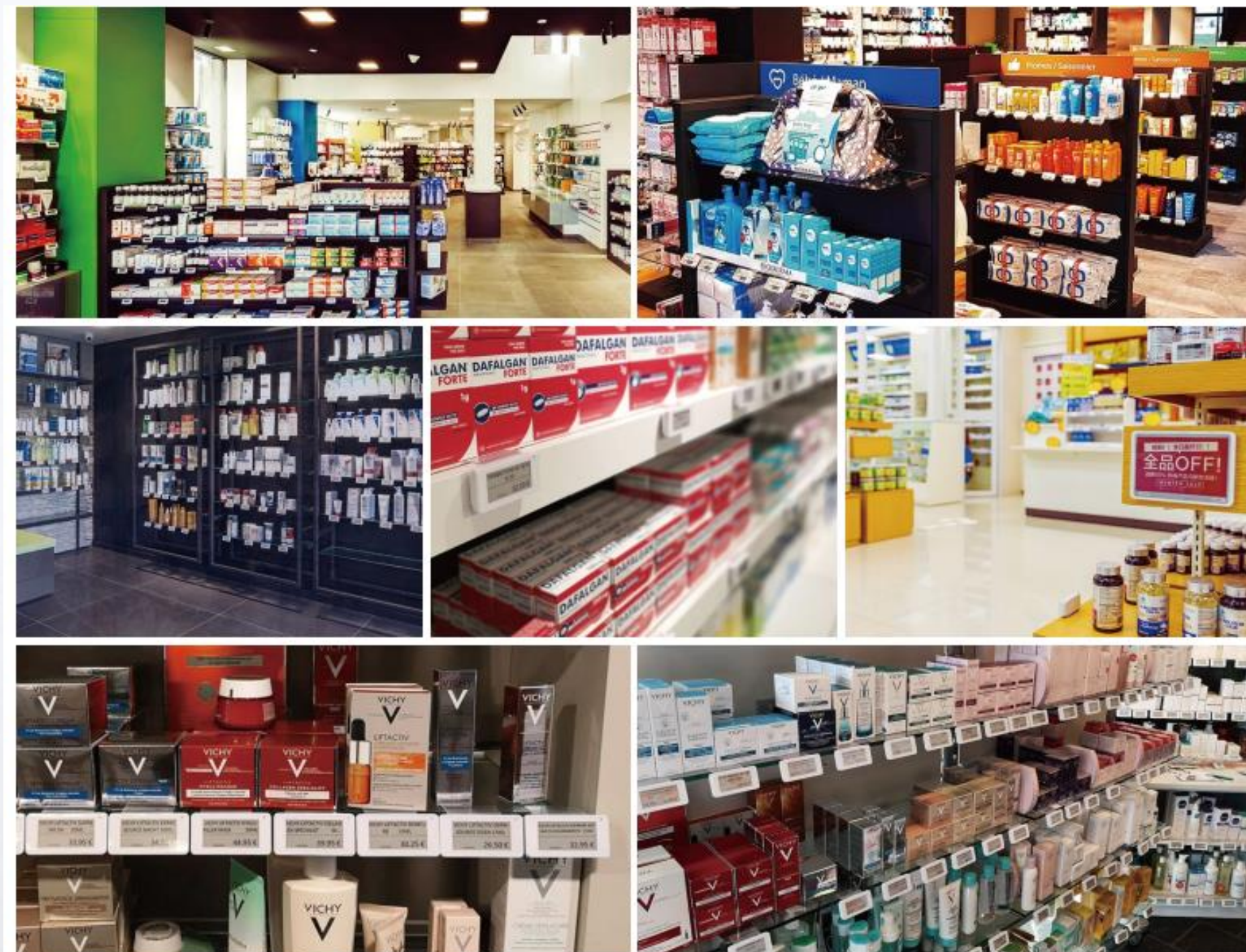


INDUSTRIES & CASE STUDY > Medical Service

To Improve Shopping Experience and Environment



In an aging society, medical treatment is in fast growing needs for patients, thus medical service plays a crucial role in modern society. Zkong ESL medical solution is just the unbelievable approach for hospital to manage wards and to work with their own systems for extended services. ESL also performs as a fundamental tool to IoT system to optimize drug management.



Logistic & Warehouse

To Raise Inventory Accuracy and Reduce Handling



Flexible and extendable for more functions, Zkong ESL solution can easily improve the productivity in the process of grounding, sorting, and counting for the stock, and raise efficiency and accuracy of warehouse. Well connected to the ERP systems, fully displayed item info, instant stock level update, and functional assistance of LED alert on the labels for improving inventory accuracy, stock-out risk prevention and cost control.



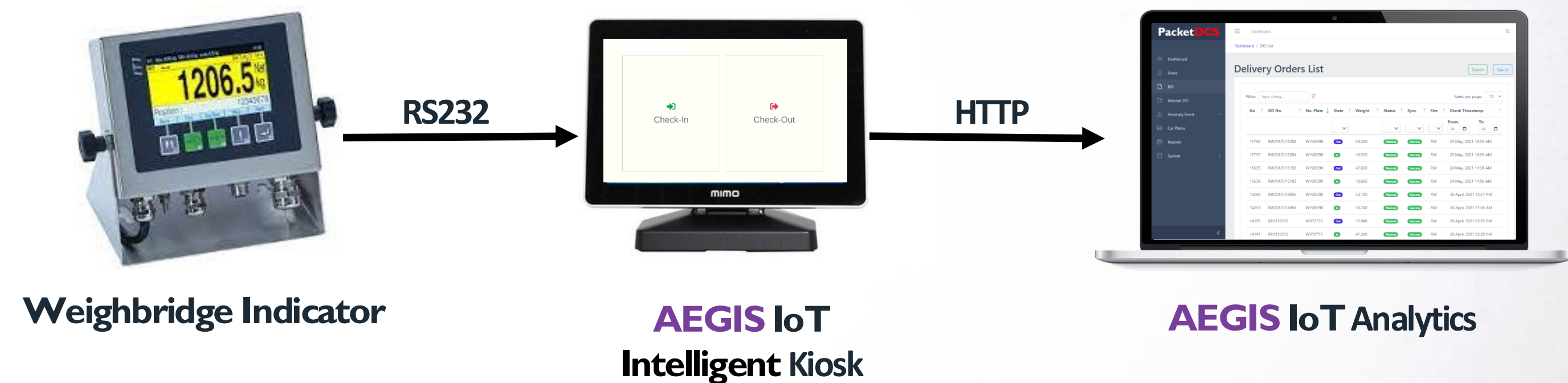
AEGIS IoT Weighbridge Solutions

Product Overview



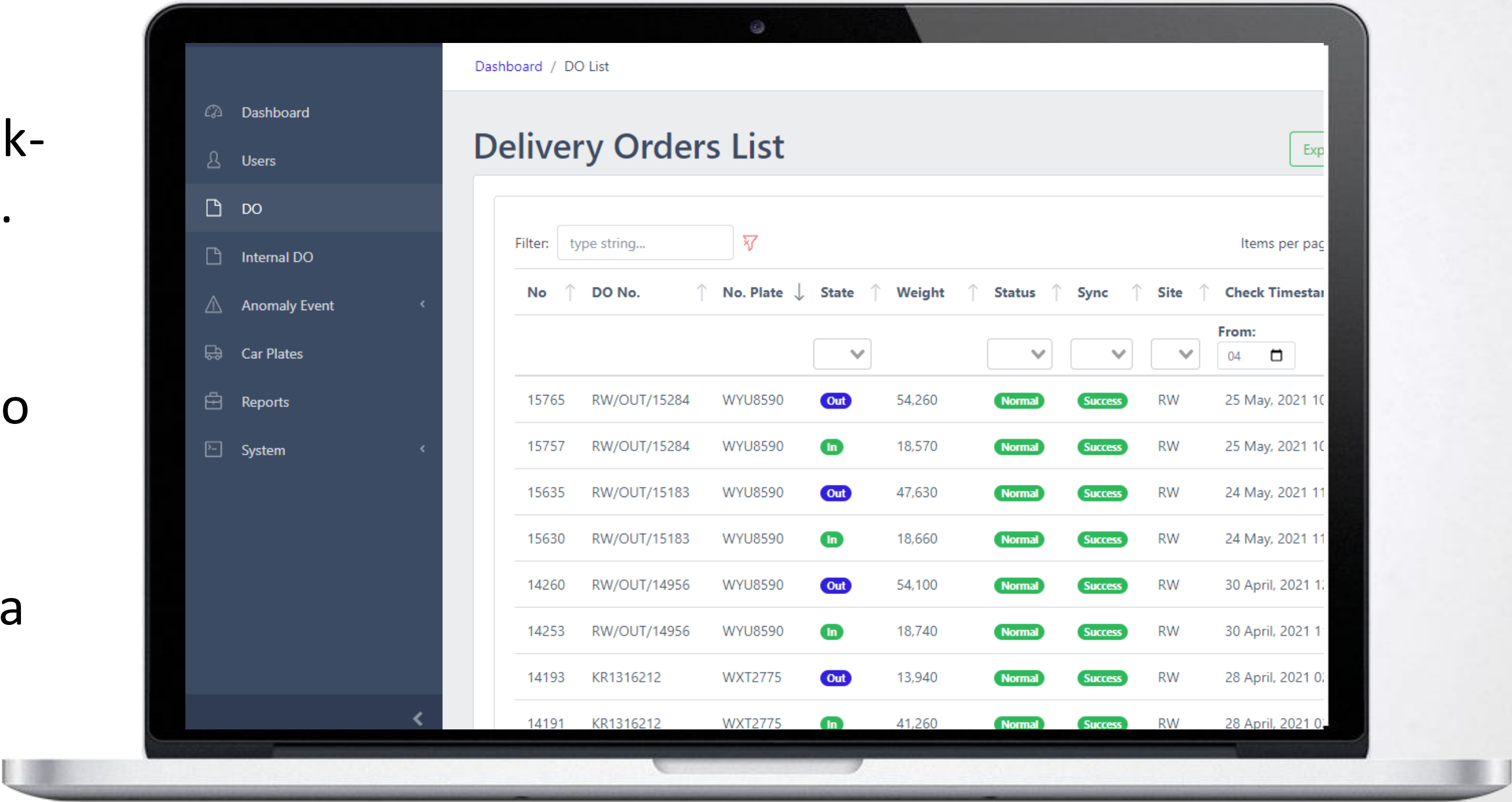
Assets Tracking and Management via **AEGIS IoT**

1. Support any weighbridge indicator with industrial standard RS232 protocol.
2. Smart intelligent kiosk capable of supporting check in and out operation as well as processing anomalous event.
3. Automated alert when anomaly is detected via smart AI object recognition.
4. View powerful analytics and assets status via **AEGIS IoT Analytics**.



Key Feature of **AEgis** IoT Weighbridge Smart Sensing

- 1. Intelligent comparison to avoid false positive rate by comparing and archive anomaly event against any check-in/out event within the same condition and time frame.
- 2. Smart vehicle classification automatically classifies anomaly event into different category (Heavy & Light) to ease auditing.
- 3. Monitor visitor/employee entry and exit from facility via anomaly detection module.
- 4. Customizable detection condition via kiosk config file.



AEgis IoT Analytics



Realtime Check-In and Out Activity

Monitor check-in and out activity in real-time, with detail packed information.

Delivery Orders List

Delivery Order Details

Information

DO No

RW/OUT/15284

Car Plate No

WYU8590

State

In

Weight

18,570 KG

Images









Close Case

Filter:

No	DO No.	No. Plate	State	Weight	Status	Sync
15765	RW/OUT/15284	WYU8590	Out	54,260	Normal	Success
15757	RW/OUT/15284	WYU8590	In	18,570	Normal	Success
15635	RW/OUT/15183	WYU8590	Out	47,630	Normal	Success
15630	RW/OUT/15183	WYU8590	In	18,660	Normal	Success

AEGIS IoT

Phone: +603 5887 0624

E-Mail: sales@springtech.ai

Anomaly Event

Find captured anomaly events with incident video as evidence.

Anomaly Event List (Heavy)

Filter:
type string...

Items per page:
10

From:
05/30/2021

To:
06/24/2021

Id	Site	Recorded Timestamp
27345	KM	31 May, 2021 06:06 PM
27344	KM	31 May, 2021 05:30 PM
27341	KM	31 May, 2021 04:52 PM
27340	KM	31 May, 2021 04:50 PM
27336	KM	31 May, 2021 04:01 PM

Information

Event Id	27345
Recorded Timestamp	2021-05-31 18:06:04
Weight	12960

Video

[Video 1](#)[Video 2](#)[Video 3](#)[Video 4](#)



Advance Reporting

Generate powerful report to ease monitoring and auditing.

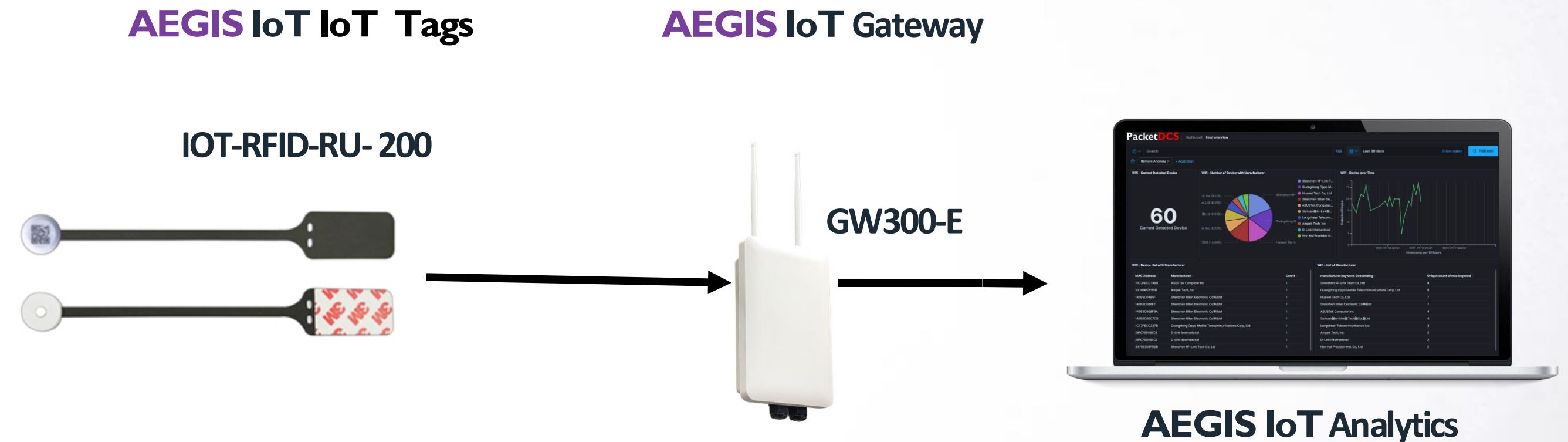
DO No	Site	Check-In Car Plate No	Check-In Weight	Check-In Timestamp	Check-Out Car Plate No	Check-Out Weight	Check-Out Timestamp	Net Weight	Estimated Pallets	Check-In Images 1	Check-In Images 2	Check-In Images 3	Check-In Images 4	Check-Out Images 1	Check-Out Images 2
KM/OUT/15719	KM	NCK7880	12400	4/26/2021 8:25	NCK7880	36780	4/26/2021 8:43	24380	16.25						
KM/OUT/15878	KM	MAK6028	7800	4/26/2021 8:36	MAK6028	24480	4/26/2021 8:48	16680	11.12						
KM/OUT/15876	KM	NCC2857	12180	4/26/2021 9:04	NCC2857	31840	4/26/2021 9:19	19660	13.11						
KM/OUT/15879	KM	NCK7880	12420	4/26/2021 9:03	NCK7880	35540	4/26/2021 9:22	23120	15.41						
KR1315607	RW	NCF8659	44980	4/26/2021 9:19	NCF8659	12420	4/26/2021 9:27	-32560	-						

AEGIS IoT Assets Management Solutions **(RFID based U-Level)** **Product Overview**



Assets Tracking and Management via IoT

1. Mount IoT tags to any RU-level equipment you wish to track.
2. Battery free IoT tag enables high availability, high accuracy and maintenance free asset tracking and management.
3. Automated alert when IoT tag is tampered.
4. View powerful analytics and assets status via **AEGIS IoT Analytics**



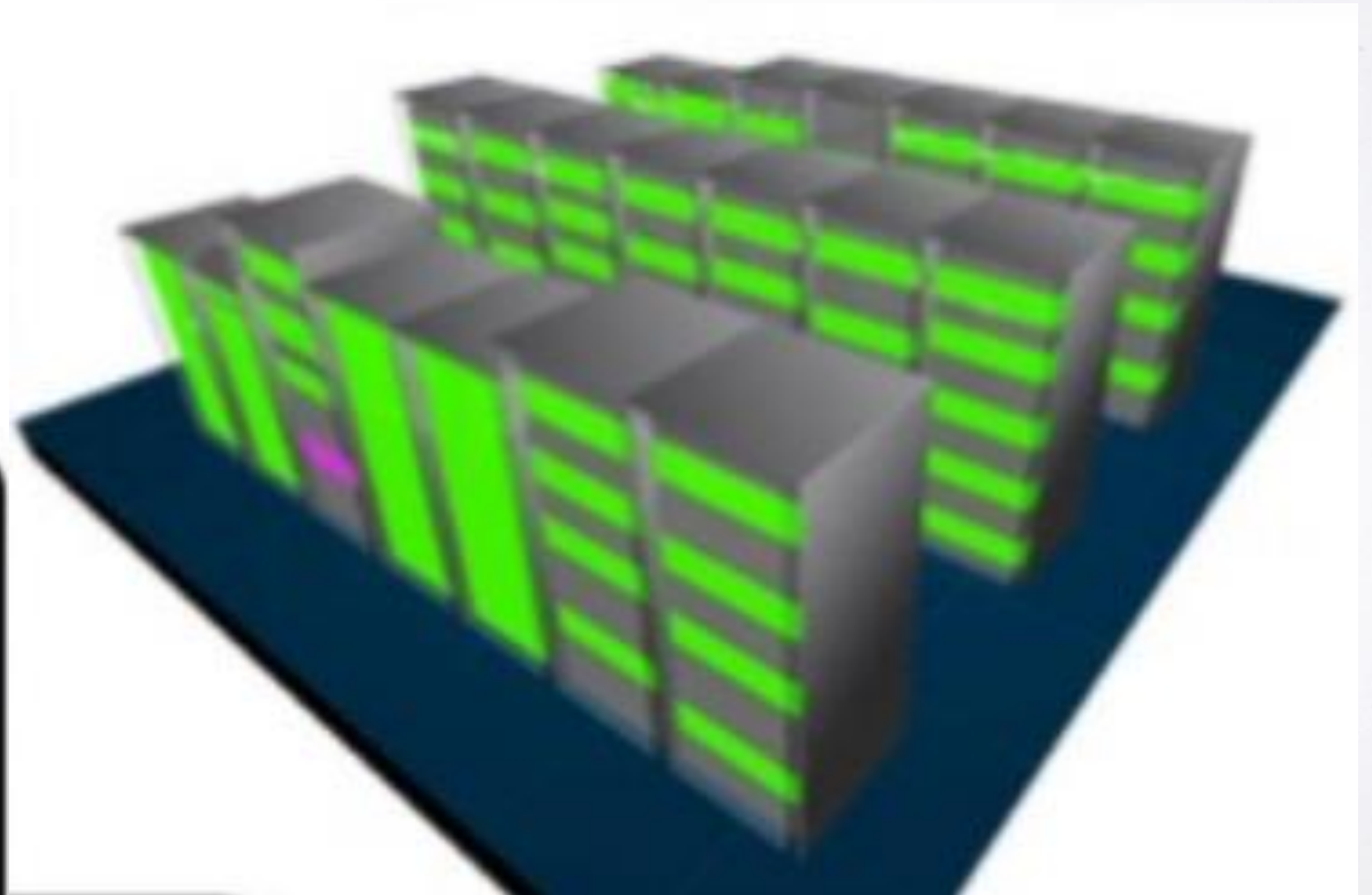
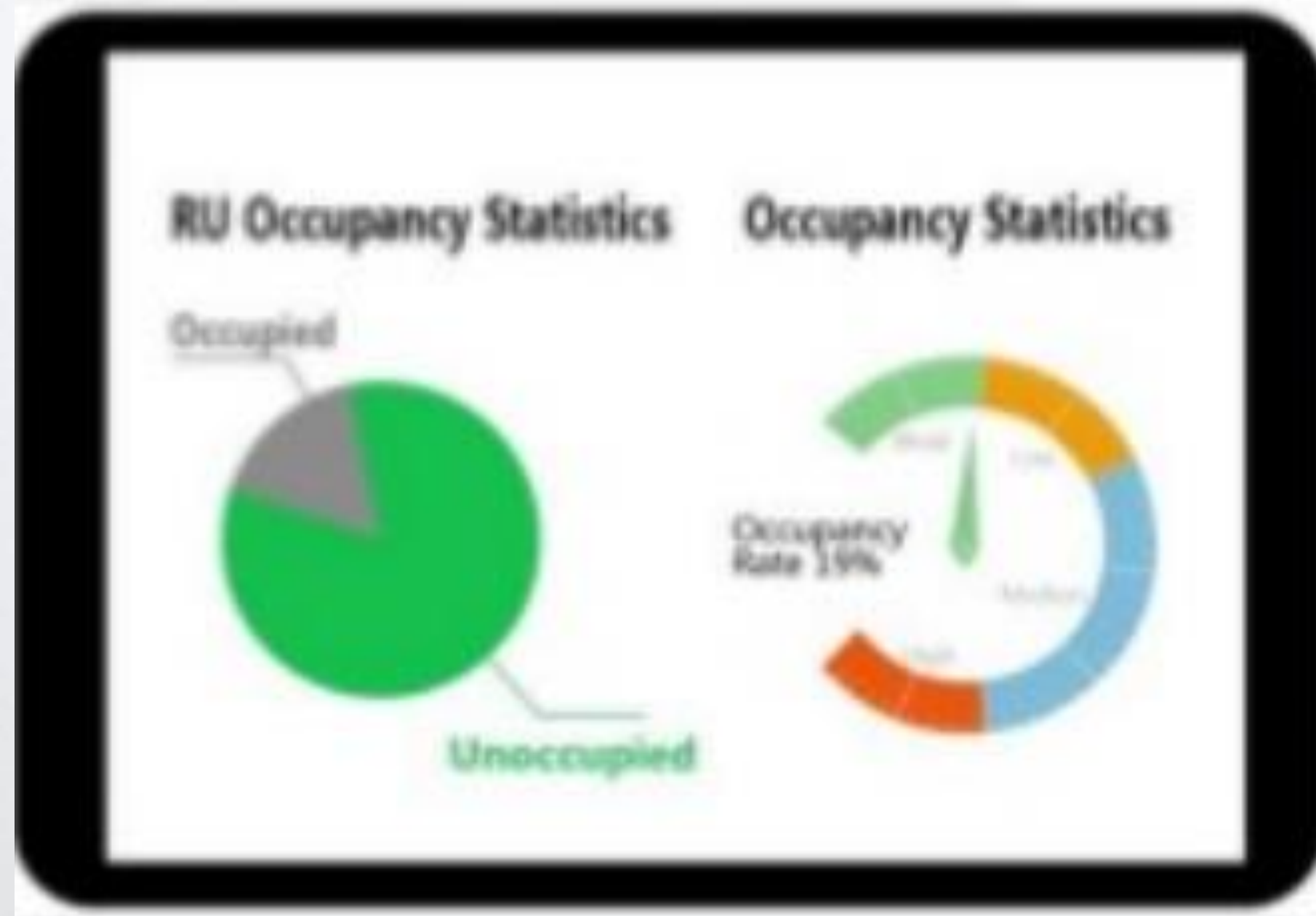
Realtime Asset Change

Collect Asset Change in real-time, no human intervention needed



Rack Space Management & Utilization

Find available rack space, maximize rack space utilization and improve ROI



AEGIS IoT Assets Management Solutions **(RFID based Movable Assets)** **Product Overview**



Assets Tracking and Management via IoT

1. Mount IoT tags to any equipment you wish to track.
2. Self-powered tags offering a battery life span of 3 years
3. Automated check in when equipment is within range of **AEGIS IoT Gateway**.
4. View powerful analytics and last location via **AEGIS IoT Analytics**

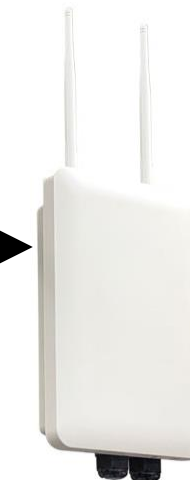
AEGIS IoT IoT Tags

AEGIS IoT Gateway

IOT-RFID-100



GW300-E



AEGIS IoT Analytics

PRODUCT DETAILS



Never Lose a Tool Again

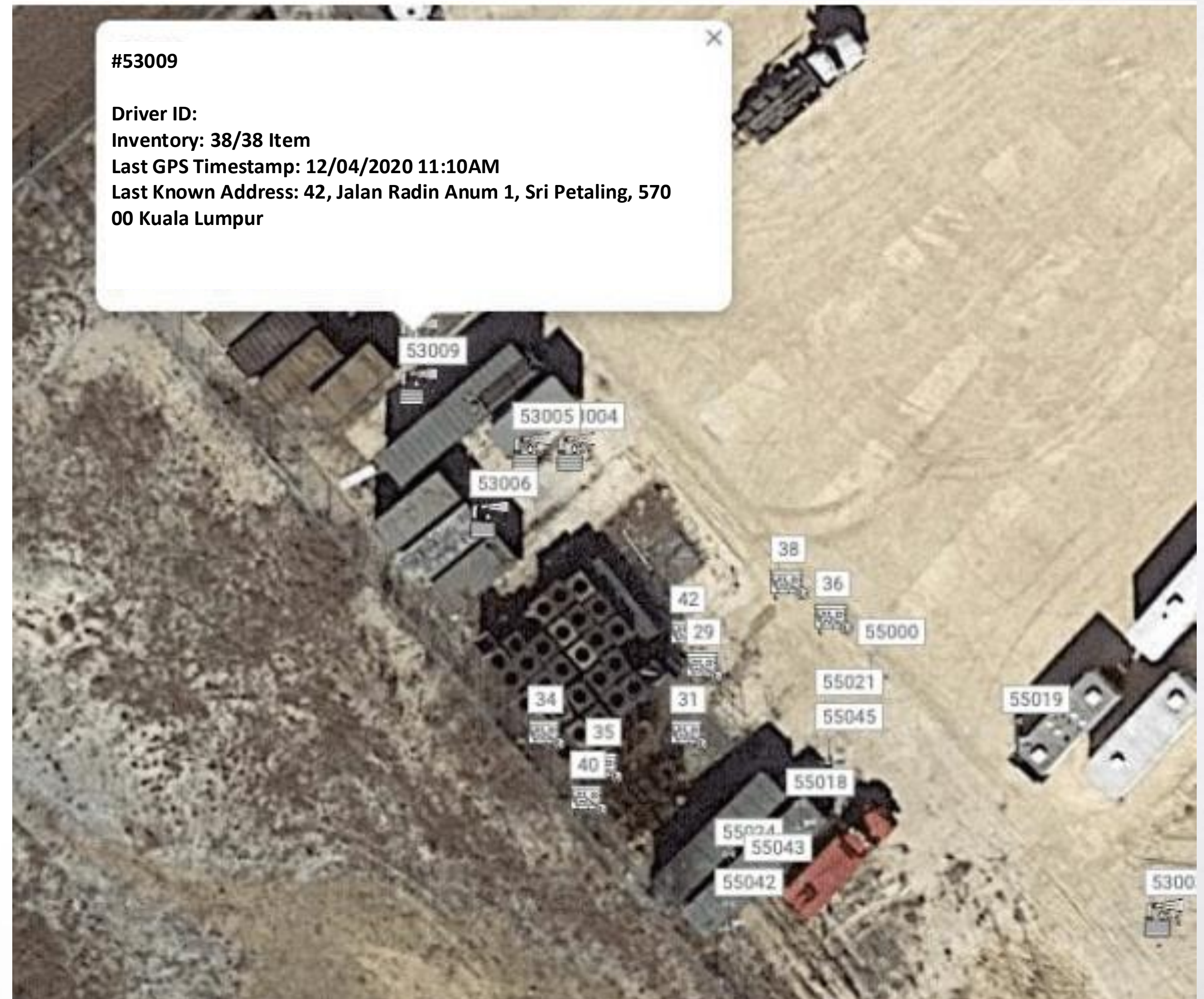
Tag any equipment with IoT RFID Tags

- When a tool is removed from the vehicle at a job site, the location and time of drop off are recorded.
- Once the job is completed, if a tool is forgotten once the vehicle starts moving, drivers get a message to their mobile, alerting them of the missing tool.



Total Visibility & Control (Overall)

AEGIS IoT cloud-based platform provides a visualized dashboard of tool pick up, drop off, location and by whom providing insight into your inventory and building accountability



Total Visibility & Control (Indoor)

AEGIS IoT cloud-based platform provides a visualized dashboard of tool pick up, drop off, location and by whom providing insight into your inventory and building accountability



AEGIS IoT AVMS Solution

Product Overview



AEGIS IoT Smart AVMS Solution

Data Control Systems & Analytics

AEGIS IoT Smart AVMS platform records and process real-time data collected by various screening terminal, accessible 24/7 to give insight of your visitors & human resources.

AEGIS IoT Smart AVMS centralize screening terminal into an easily accessible platform. Accessible anywhere anytime, AEGIS IoT AVMS give your organization immediate and accurate data regarding human resource.

Features:

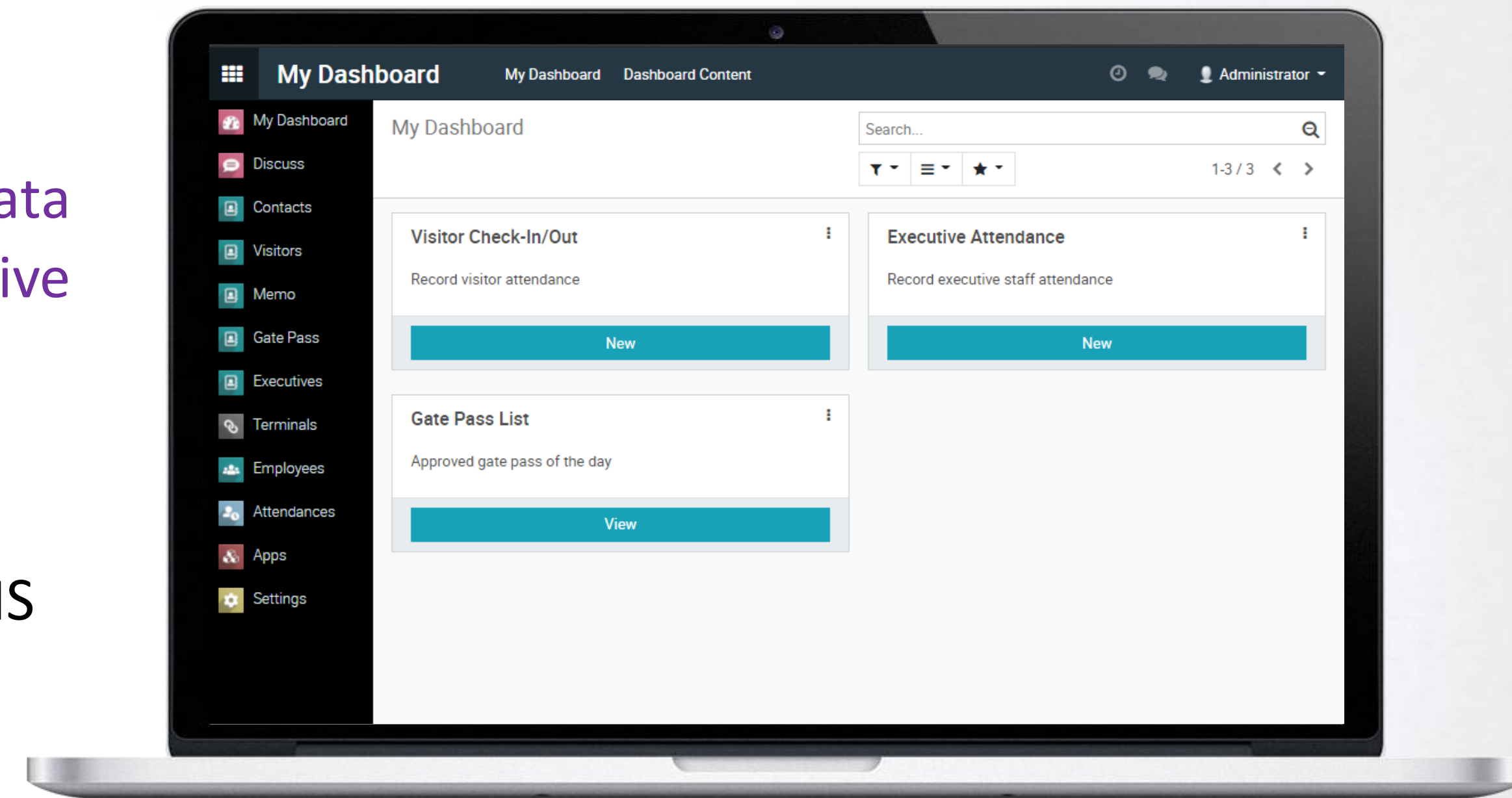
- 24/7 Operation
- User friendly dashboard portal
- Visitor & Attendance Management
- Entry & Exit Gate Pass Management

Benefits:

- Improve employee/visitor visibility
- Improve employee productivity
- Avoid costly compliance breach

Request a demo:

- Contact us to schedule a free demo:
- sales@AEGIS IoT.com
- +(60) 3-58870624



AEGIS IoT Smart Attendance & Visitor Management System

AEGIS IoT Smart AVMS is the latest offering of the new normal centric solution brought to you by AEGIS IoT.

- Contactless
 - Temperature reading, mask detection and identification without physical contact with the terminal.
- Flexible Deployment
 - Allow to set different rules for multiple scenarios. E.g., use in an office premise require employee verification while at supermarket does not need ID.
- Attendance and Report
 - High event log capacity to allows longer data retention. Able to comply to SOP and guidelines
- Integration
 - API and SDK available to integrate with 3rd party system, mobile APP and more.
- Artificial Intelligence
 - Built-in AI for facial recognition, mask detection and elevated skin surface screening



Face Recognition Access Terminal

Key Feature of AEGIS IoT Smart AVMS Solution

AEGIS IoT AVMS solution offers a full suite visitor management solution integrated with screening terminal and multi-level approval workflows from requestor, departmental approver, health and safety to final approval. Visitor data will be visible by front desk security personnel to check and verify the visitor's identity and perform temperature screening via the terminal and recording the visitor's temperature into the system.

Visitors			Visitors List	Check-In / Out	Visit Records	Still In Compound			 Administrator ▾
Visitors			Search...						
Create			Import						
									
			1-1 / 1						 
☐	Name	Vendor	Created by						
☐	Gilson Lai	LeadAlways Technology (M) Sdn Bhd	Administrator						

The AVMS solution also offers attendance check-in and out functionality for organization to record employee's attendance via the screening terminal. The screening terminal will act as both temperature screening terminal as well as utilizing its AI facial recognition to recognize the individual employee and recording the attendance of the said employee. The terminal is also able to give out recommendation or enforce face mask wearing requirement before employee can check-in/out.



Attendances

Check In / Check Out

Manage Attendances

Reporting

Configuration

Administrator

Attendances

Create

Import

Search...

1-3 / 3

☐	Employee	Check In	Check Out	Worked hours	Check-In Temperature	Check-Out Temperature
☐	Administrator	08/07/2021 14:13:24	08/07/2021 14:13:32	00:00	0.00	0.00
☐	Administrator	03/22/2021 17:18:38	03/22/2021 17:23:03	00:04	35.50	36.50
☐	Administrator	03/21/2021 17:23:11	03/21/2021 17:23:50	00:01	35.00	36.00

Controlling the in and out of employee in the middle of the workday can be troublesome, hence AEGIS IoT AVMS offers a gate pass module for organization to allow employees to request and issue entry and exit gate pass upon approval of the management. The gate pass created will be available for the front desk security personnel to check and verify the entry and exit of the employees.

Gate Pass Gate Pass Gate Pass Settings   Administrator

Gate Pass / New

Save Discard

Draft Confirm Validated By PIC Reject Completed

Name

Employee

Purpose

Personnel

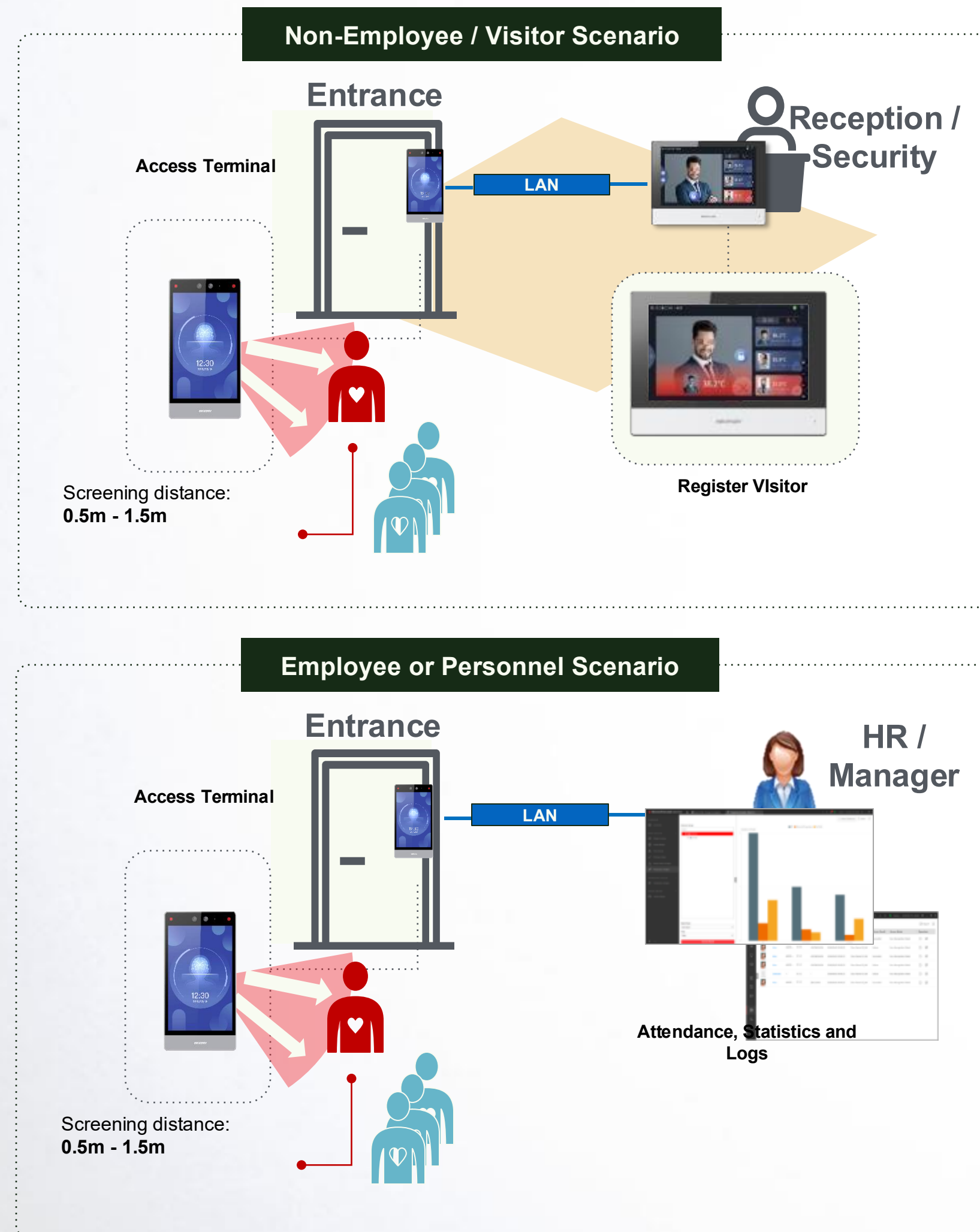
Reason

Datetime

From (Datetime)

Datetime

To (Datetime)

**CONTACTLESS**

Identification without physical contact with the terminal.

FLEXIBLE DEPLOYMENT

Allow to set different rules for multiple scenario. Eg use in an office premise require employee verification while at supermarket does not need ID.

ATTENDANCE AND REPORT

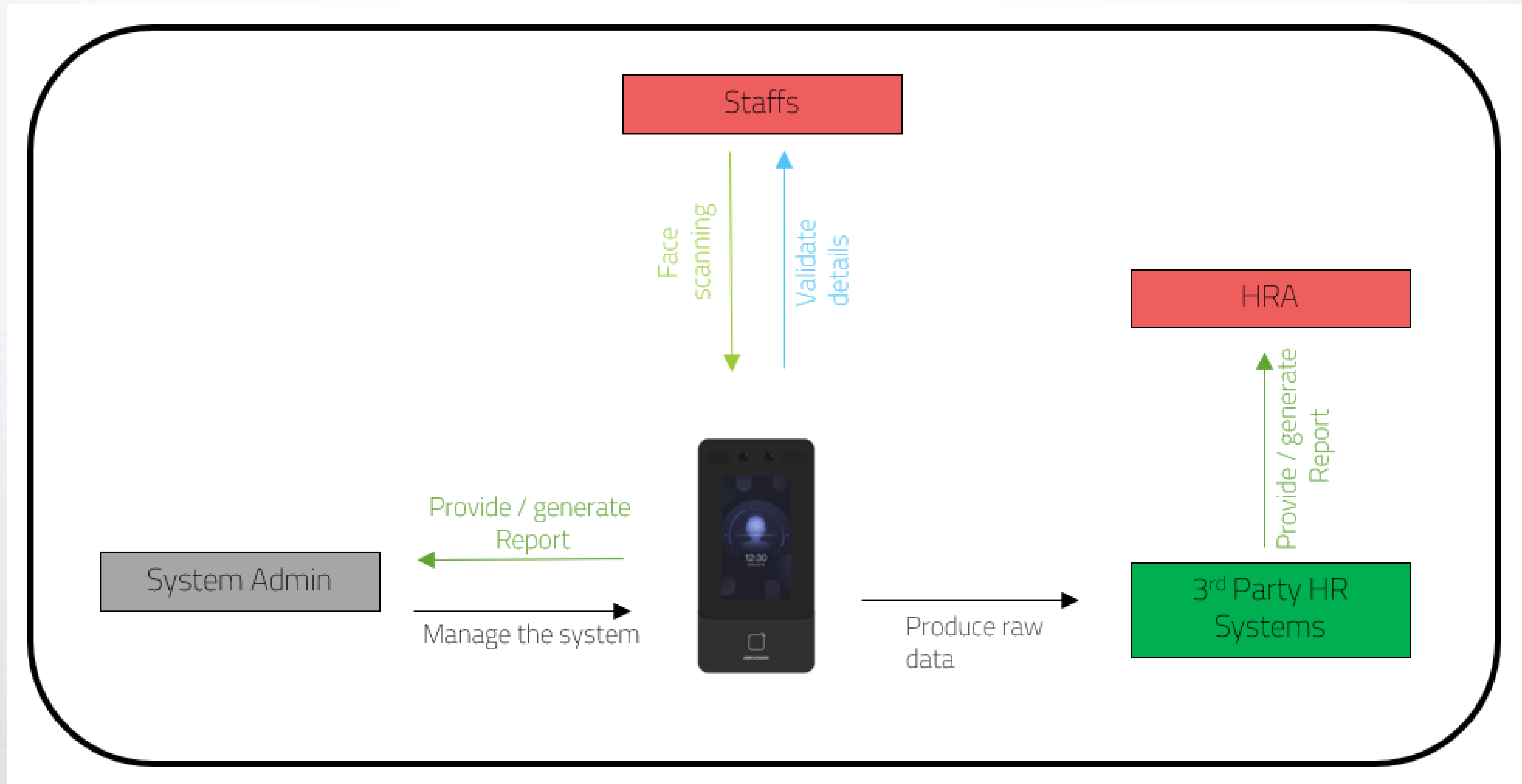
High event log capacity to allows longer data retention. Able to comply to government SOP and guidelines

INTEGRATION

API and SDK available to integrate with government mobile APP, user APP and more.

ARTIFICIAL INTELLIGENCE

Built-in AI for facial recognition, mask detection and elevated skin surface screening



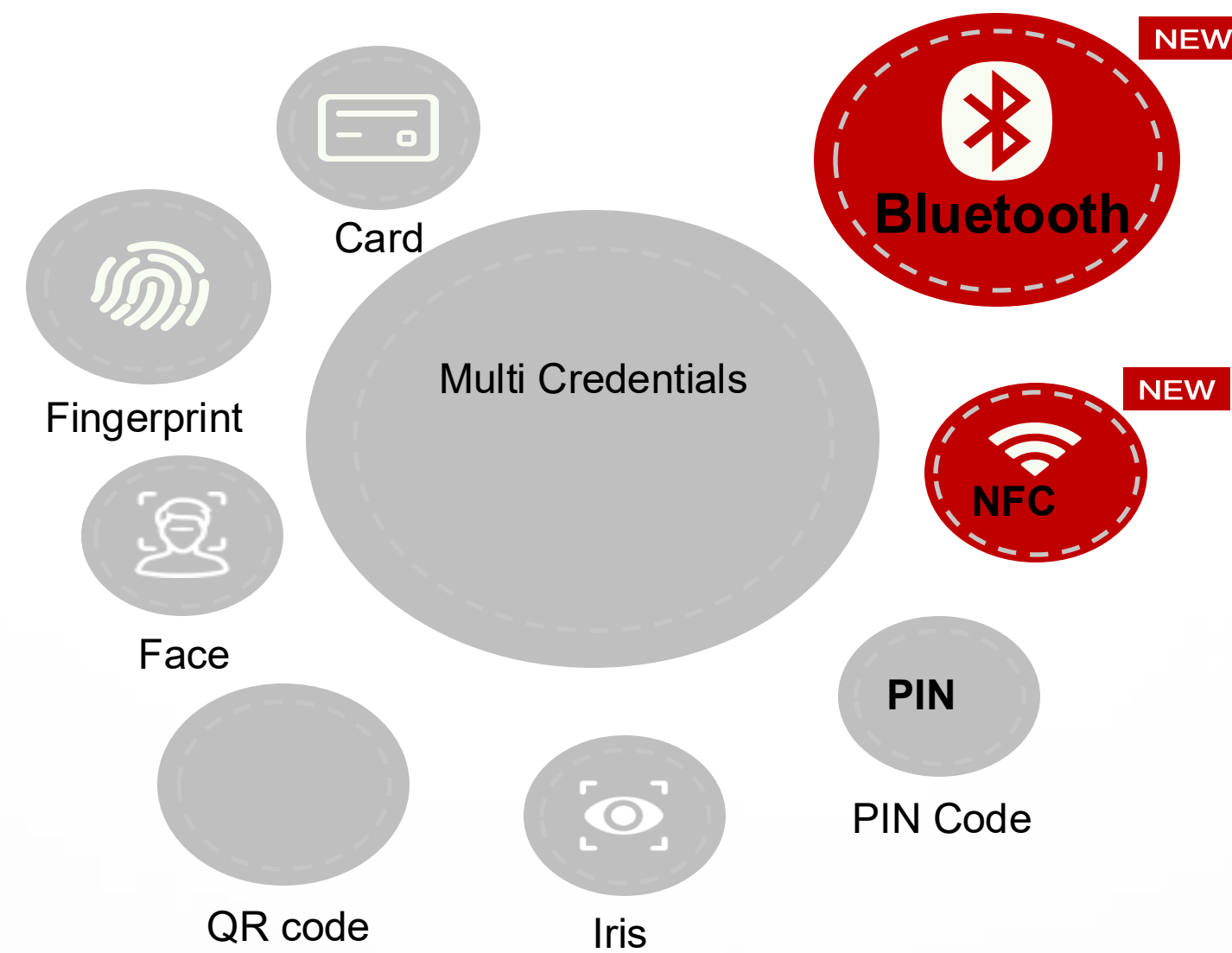
AEGIS IoT Access Control Solution

Product Overview





Access Control System



Workshop



Thermographic module

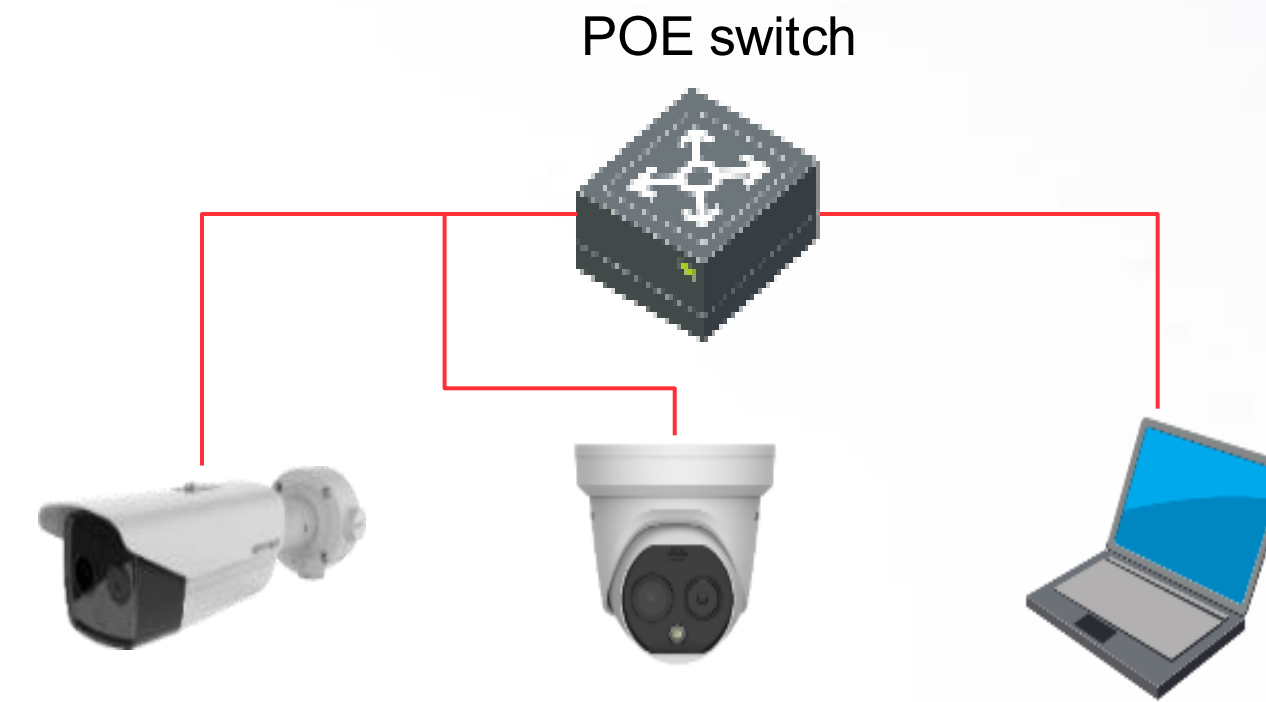
7-inch touch screen



Double Protection without A Touch



Black body

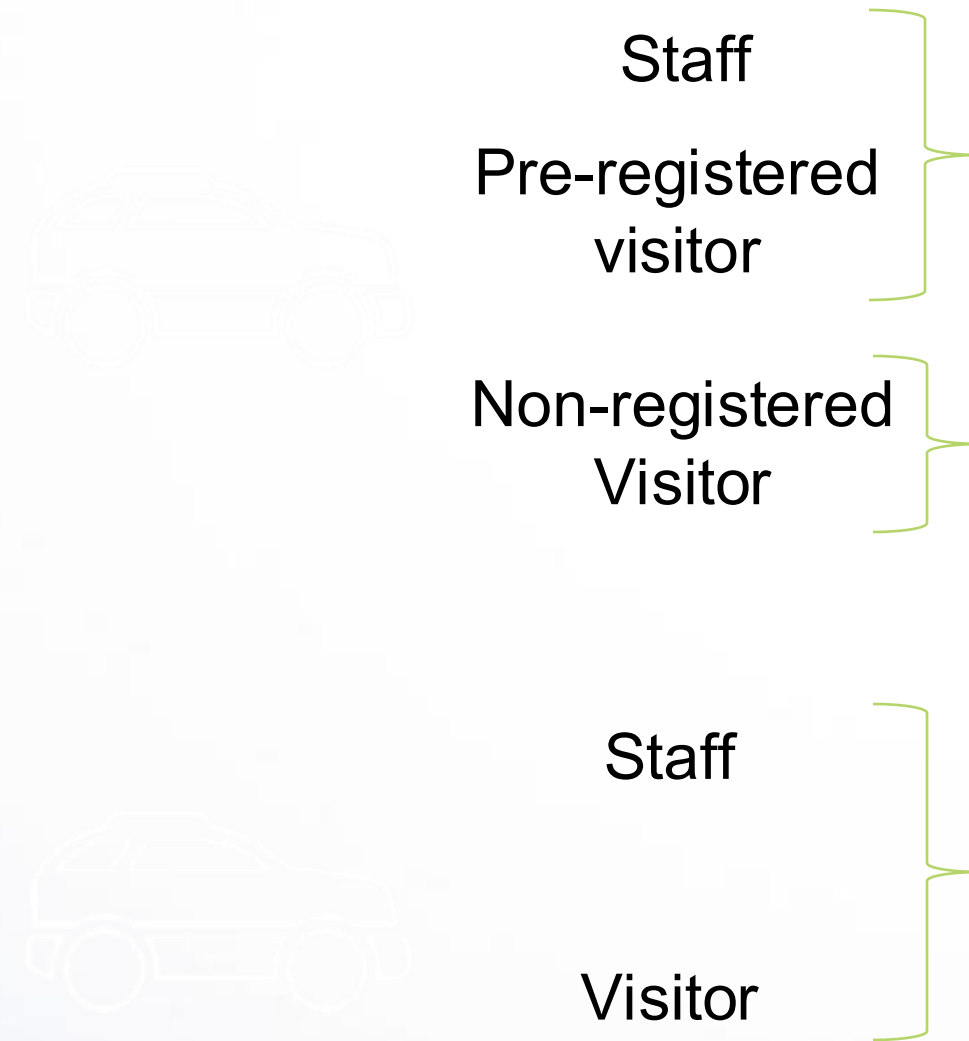


Temperature Screening Cameras

Laptop

Wireless, Flexible, Fast Deployment

For Cars Only (w/o Booth)



Auto-open barrier by
ANPR

Call via Intercom to
remote check

IN

Auto-open barrier by
ANPR

OUT

AEGIS IoT Warehouse Dock Solution

Product Overview



PRODUCT DETAILS

00 Dock Camera

- Truck Plate Recognition
- Parking Space Status Detection
- Vehicle Drive In/Out



02 Vehicle Waiting

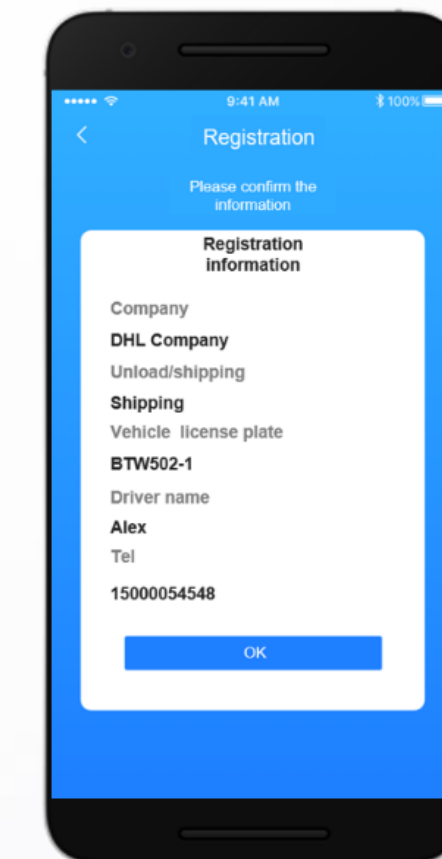
The registered vehicles are waiting in the parking lots

DHL			UPS			XPO			J.B.			SF		
serial number	License plate number	state	serial number	License plate number	state	serial number	License plate number	state	serial number	License plate number	state	serial number	License plate number	state
1	GP 34323	Waiting	1	GP 54323	Waiting	1	GP 54323	Waiting	1	GP 12223	Waiting	1	GP 08923	Waiting
2	CP 26003	Waiting	2	GP 54003	Waiting	2	CP 54345	Waiting				2	GP 78973	Waiting
3	GP 26803	Waiting				3	CP 29830	Waiting						
4	GP 96363	Waiting				4	CP 10988	Waiting						
5	CP 26377	Waiting				5	CP 10780	Waiting						
6	GP 10567	Waiting												

Outdoor LED Screen

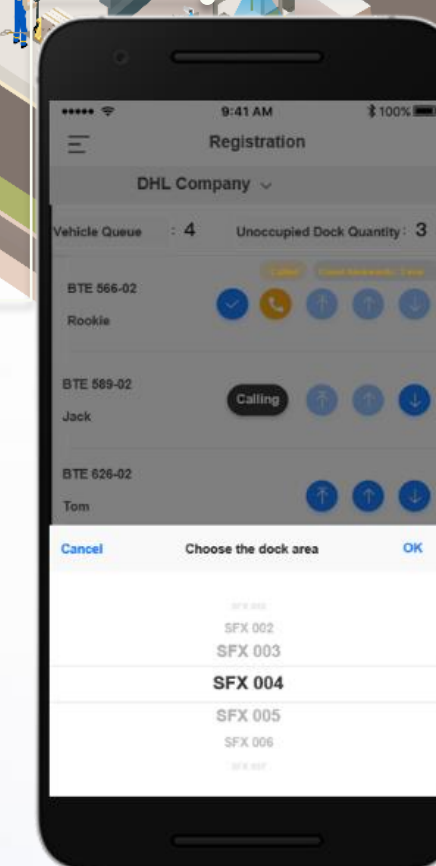
01 Vehicle Register

Vehicles register by scanning QR at the entrance



03 Unloading

The whole uploading process can be supervised



AEGIS IoT



Phone: +603 5887 0624



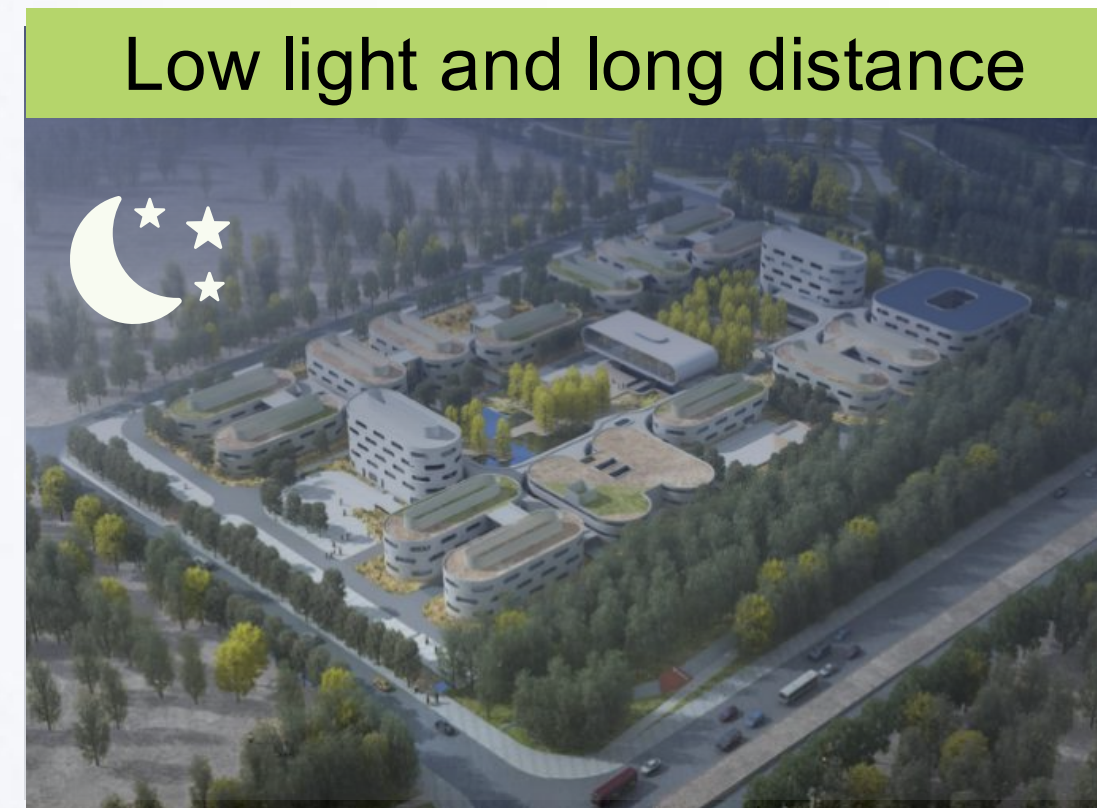
E-Mail: sales@springtech.ai

AEGIS IoT Perimeter Security Solution

Product Overview



Scenario 1



Thermal camera

Scenario 2



Radar + Dome Camera

Step 1: Configure Alarm Plan

Step 2: Alarm triggered by
Intrusion, stealing and etc.

Step 3: Security handle it onsite
or in remote control room

Step 4: Leaving as a evidence

 **QUESTIONS &
ANSWERS**

Go ahead. **Don't hesitate.**

THANK
YOU

For **your** attention!
