

CHINO INT
SENSE CONNECT

SENSE CONNECT

AIOT



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Who is ChinolNT?



Customers & Solutions

IOT Smart Facility Management



Smart Site Safety System



Nga Ying Decoration Ltd

Por Mee Factory Building

AI + Predictive Maintenance



ChinoINT Know-How & Strengths

Hong Kong R&D

- local R&D team
- local expert support
- Chartered Engineer



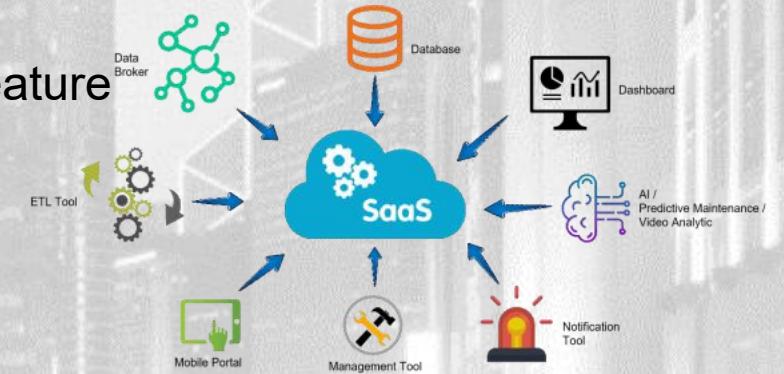
Hardware Design Capability

- IOT sensor design
- Gateway design
- NRE cabability



Software Capability - AIOT Platform

- Complete Feature
- Deployed
- AI-integrated



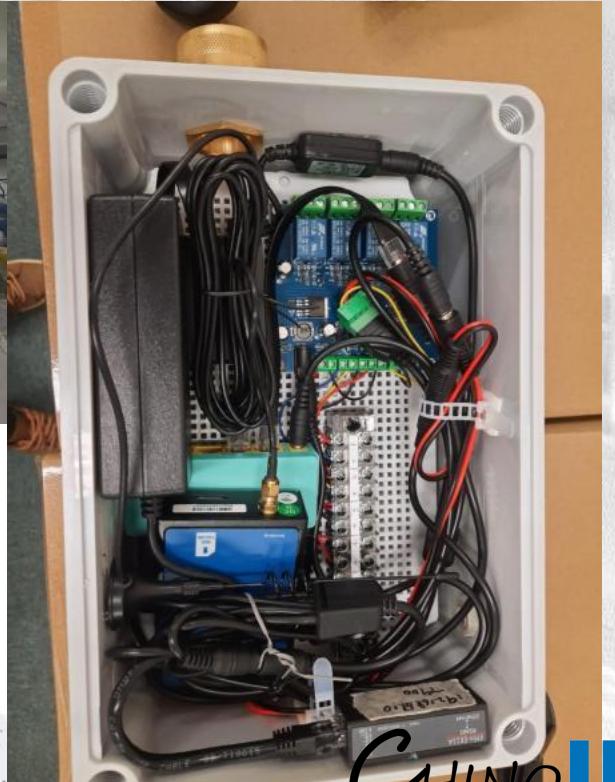
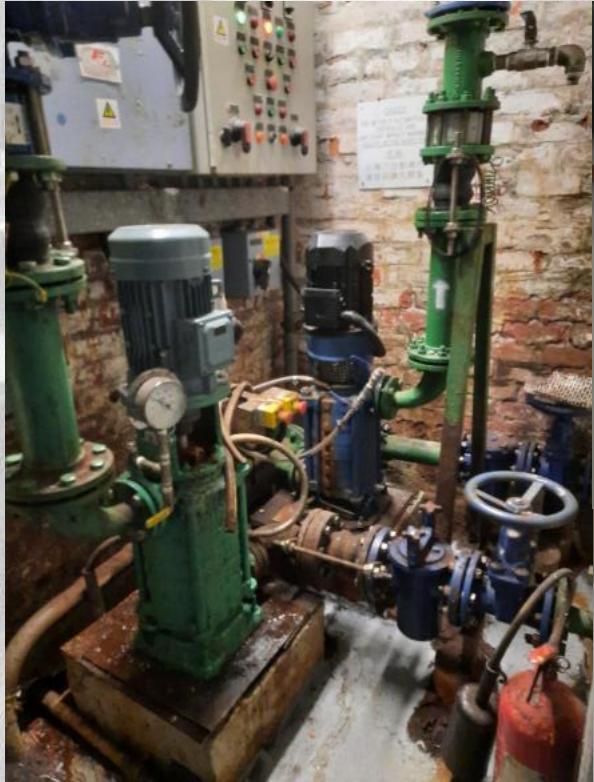
AI & Algorithms Development

- 11 innovation patents owned by executives
- deployed 4S with AI
- deployed AI solutions at local univeristy, and government building



Customization to Fit All Situations

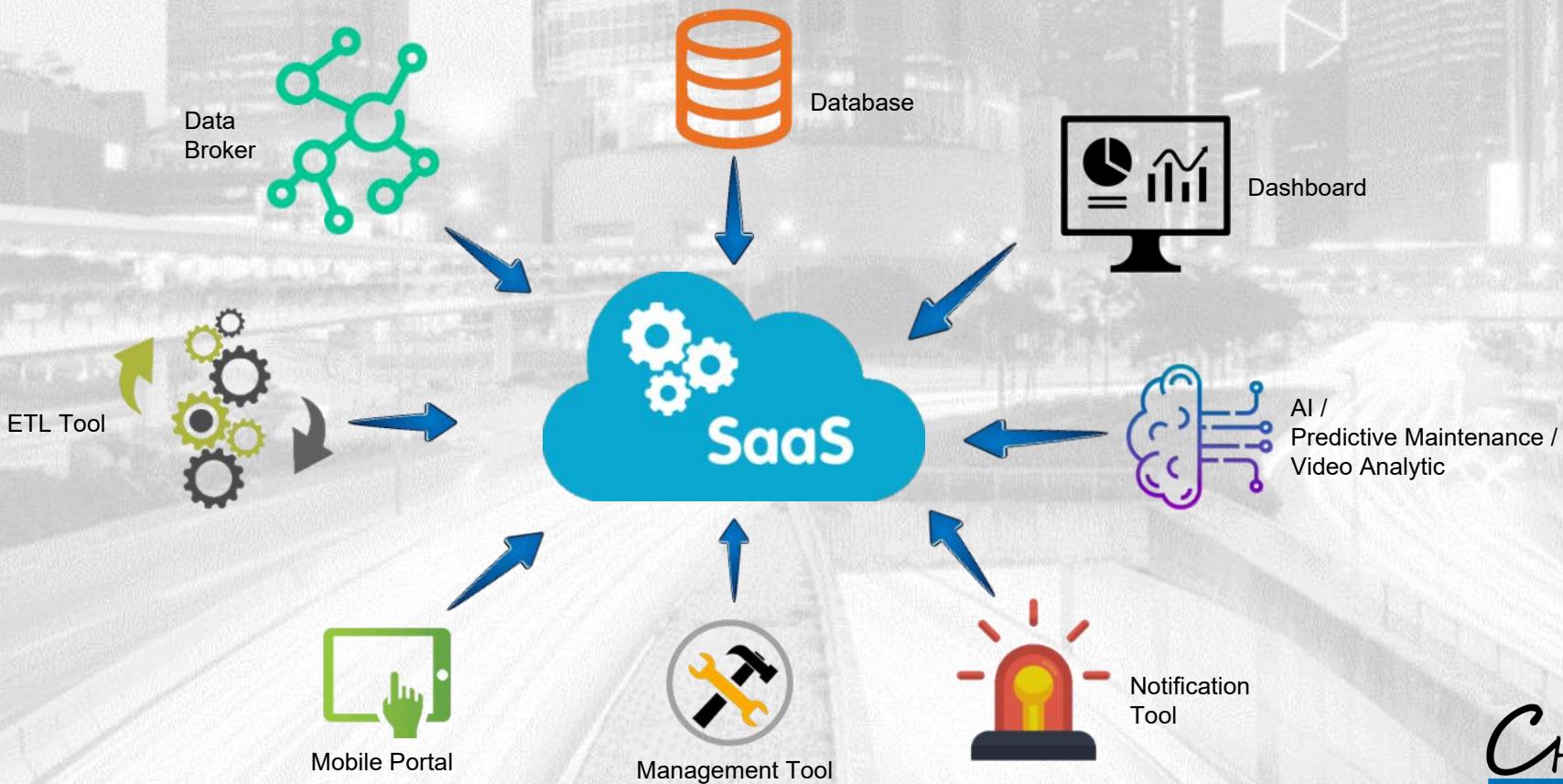
Tailor-made equipment and customization is one of ChinoINT's strength. No matter it is thick-wall / metallic-wall of ware-house, walk-in freezed, or signal dead-zones, ChinoINT is able to custom-made solution and equipment to fit into different environment. This offers the most cost effective solution to solve different problems.



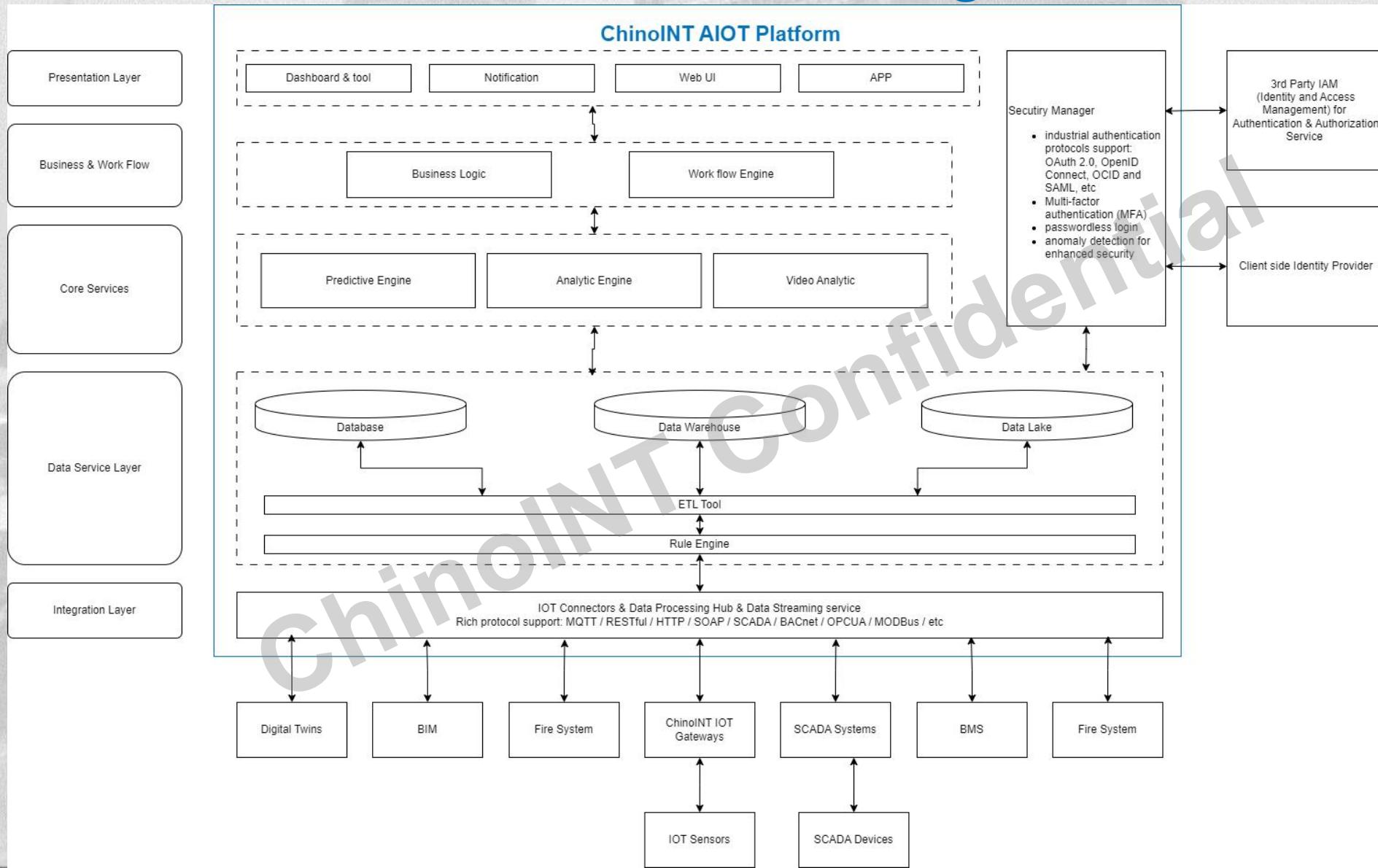
ChinoINT SaaS

ChinoINT creates the next generation SaaS and IOT platforms.

The SaaS is a complete platform including data broker, ETL tool, Database, dashboard, management tools, mobile portal and notification tools, etc. This fulfills all your IOT needs and generates extra values to our clients.



Architecture Diagram



Dashboard Designs - Smart Site Safety System

SSSS - ChunWo CMP & Maintenance Project



CHINOINT
SENSE CONNECT

CHUN WO

CHINOINT safety monitoring system @ Ming Yin College

首頁

Safety Monitoring System

Hazardous Areas Access S...

Permit to Work System

Permit to work event

實時 - 最後 30 天

Ticket Submitted (29) | Ticket Foreman Approved (2) | Ticket PM Approved (2) | Ticket Rejected (0)

Smart lock event

Timestamp ↓ | Lock | User | Result

沒有找到資料

1 - 0 of 0

Safety monitoring event

No Helmet Z1 | No Helmet Z2 | No Uniform Z1 | No Uniform Z2 | Total

No Helmet Z1 (0) | No Helmet Z2 (0) | No Uniform Z1 (0) | No Uniform Z2 (0) | Total (0)

Event: No Helmet

Time: 2025-05-19 14:28:53

Location: Zone2

Event: No Uniform

Time: 2025-05-19 14:28:52

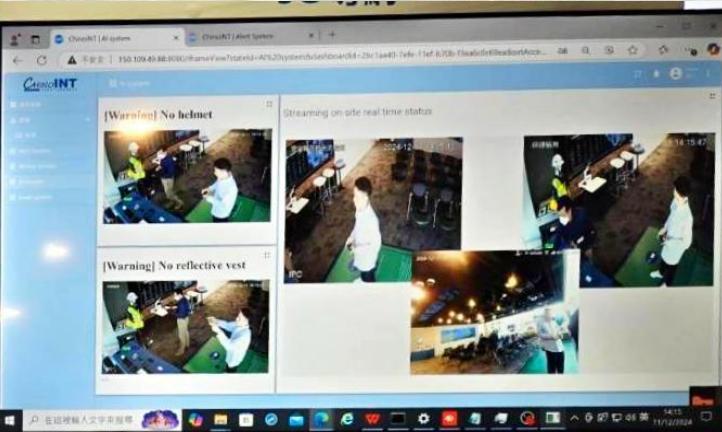
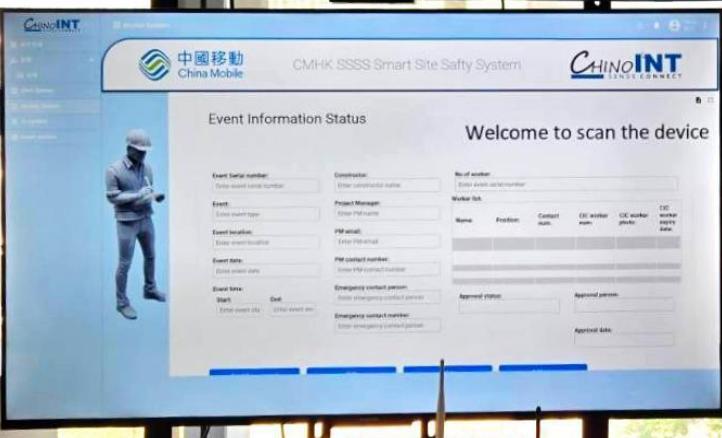
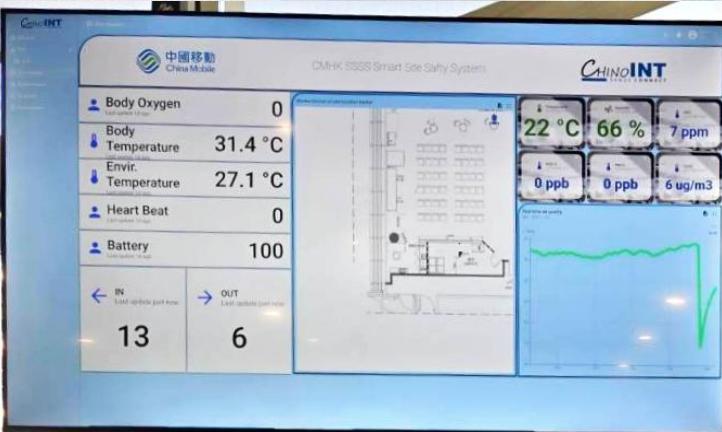
Location: Zone2

Live Streaming



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ChinoINT X CMHK: SSSS with 5G Open Lab @ HKSTP



Dashboard Designs - Smart Housing Estate Management Platform



Dashboard Reference - Facility Management Platform for Estates

Overview for all estates in one welcome page

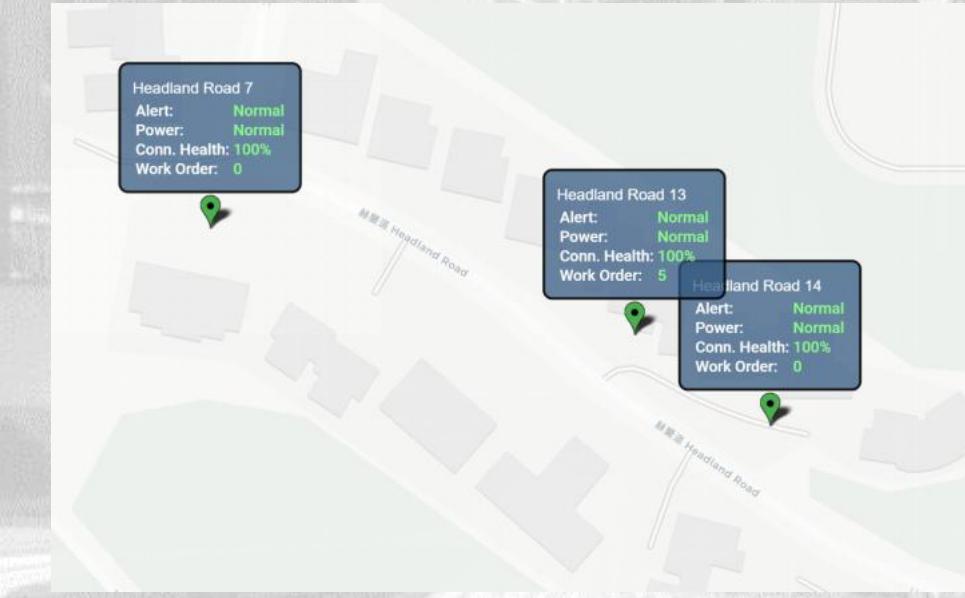
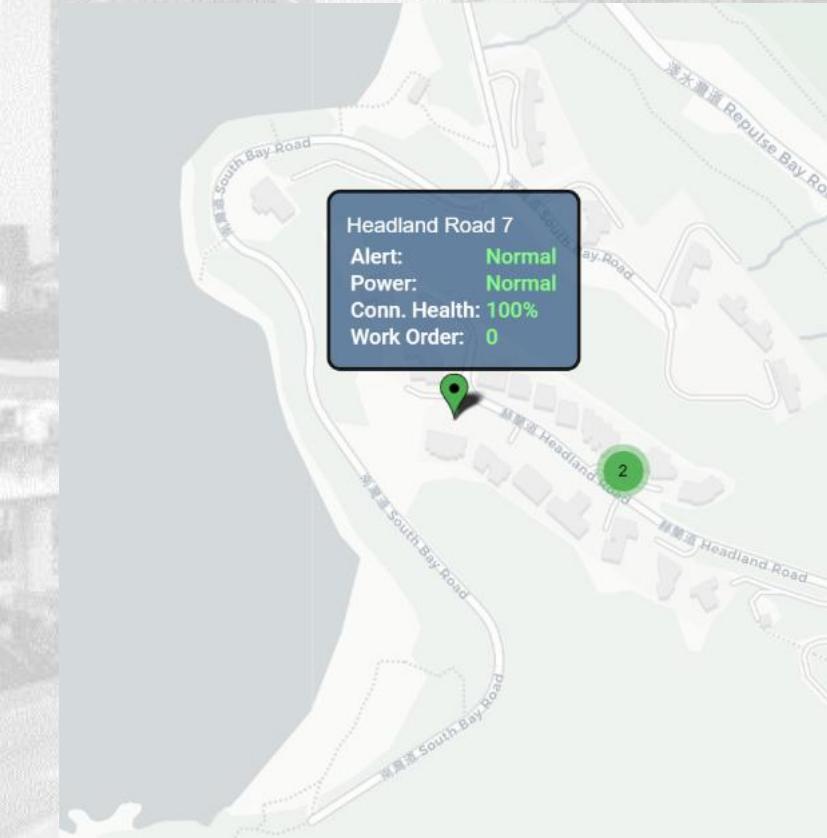
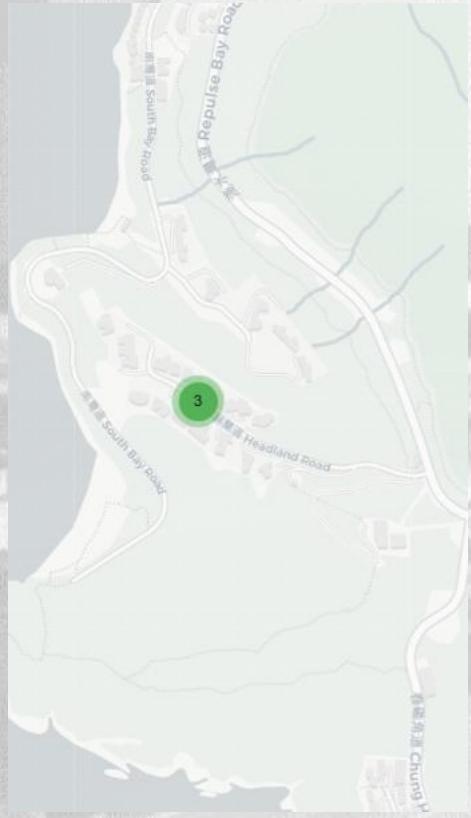
The dashboard features a header with a house icon and the text "KADOORIE ESTATES IOT Management Platform" in orange, with a copyright notice for 2023 Chinotech International Limited. On the left is a photograph of the St. George's Building at night. The right side is a map of Hong Kong showing two facility locations: St. George's Building and Deep Way Bay Road 70-72. Each location has a callout box with the following data:

Location	Alert	Power	Conn. Health	Work Order
St George's Building	Alert	Normal	100%	0
Deep Way Bay Road 70-72	Normal	Normal	100%	3

At the bottom right is the Chinotech logo: CHINOINT SENSE CONNECT.

Dashboard Reference - Individual System View

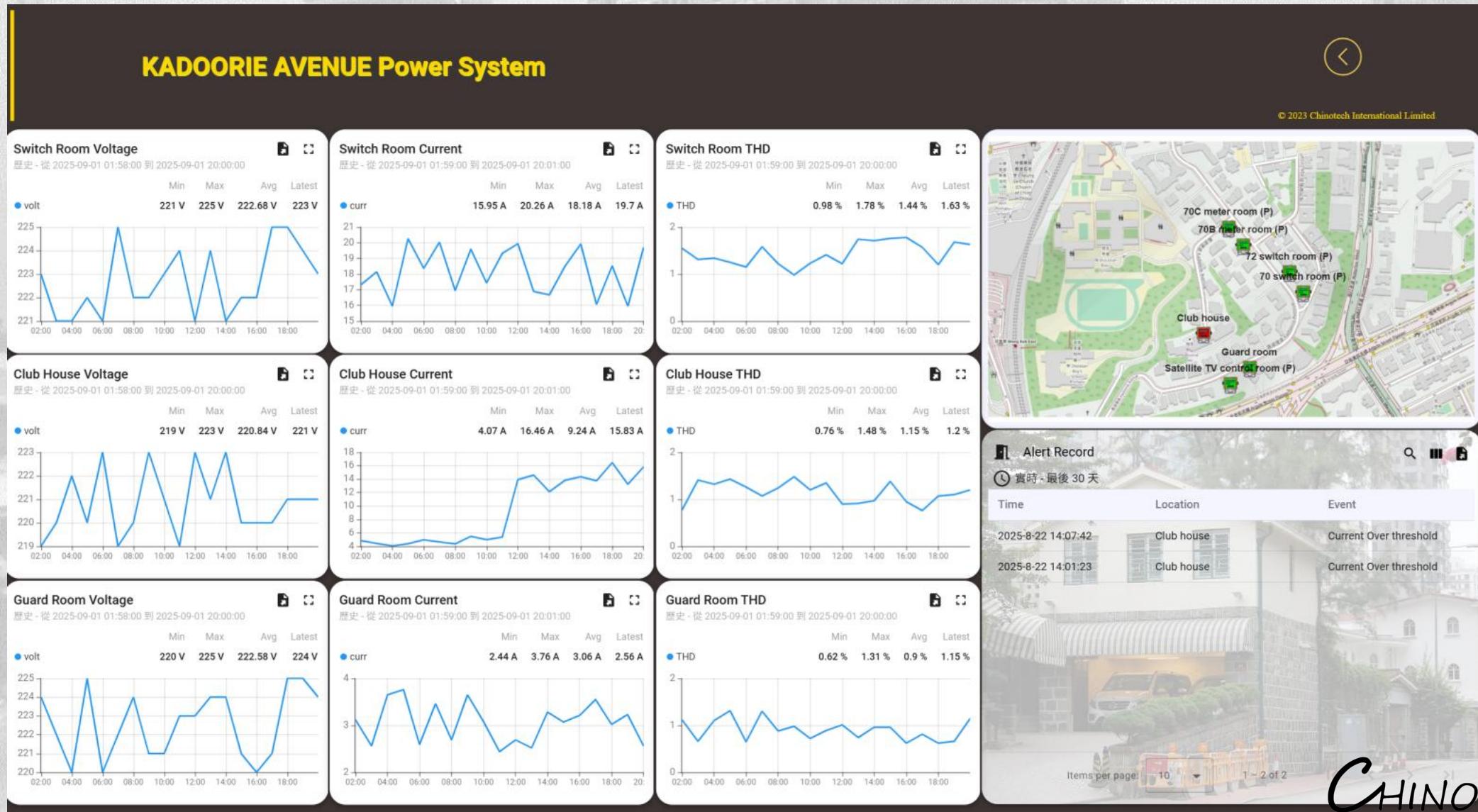
Automatic zooming and fit all estates into one screen



Dashboard Reference - Estate Dashboard



Dashboard Reference - Individual System View



Dashboard Reference - Individual System View

KADOORIE AVENUE Entrance System

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Entrance Record

實時 - 最後 30 天

Time	Location	Door Open Period
2025-10-25 11:51:28	70 pump room	26 min
2025-10-08 16:38:09	70C meter room	11 min
2025-10-02 10:20:43	70B meter room	4 min

Items per page: 10 1 - 3 of 3

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Dashboard Reference - Residents Info Panel

22°C 42%
King's Park
↓18°C ↑24°C

16:05:41
Fri, 21 November
2025

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KADOORIE AVENUE



Lift Average Monthly Electricity Consumption

電梯平均每月使用電量

↓13.68%

This month 本月

13678

kWh

Last year 上年

15548

kWh



Average Monthly Total Electricity Consumption

平均每月使總電量

↓6.68%

This month 本月

22443

kWh

Last year 上年

23736

kWh



Average Monthly Total Water Consumption

平均每月使總水量

↑5.45%

This month 本月

11.68

m3

Last year 上年

11.09

m3

App

The image displays three screenshots of a mobile application interface, likely for a building management system. The top header of the screenshots reads "ESTATES IOT Management".

Screenshot 1: Kadoorie Avenue Power System

- Map View:** Shows a map of the Kadoorie Avenue area with various locations marked:
 - 70C meter room (P)
 - 70B meter room (P)
 - 72 switch room (P)
 - 70 switch room (P)
 - Club house
 - Guard room
 - Satellite TV control room (P)
- Alert Record:** Realtime - last 30 days

Time	Location	Event
2025-8-22 14:07:42	Club house	Current Over threshold
2025-8-22 14:01:23	Club house	Current Over threshold

Screenshot 2: Estates IoT Management

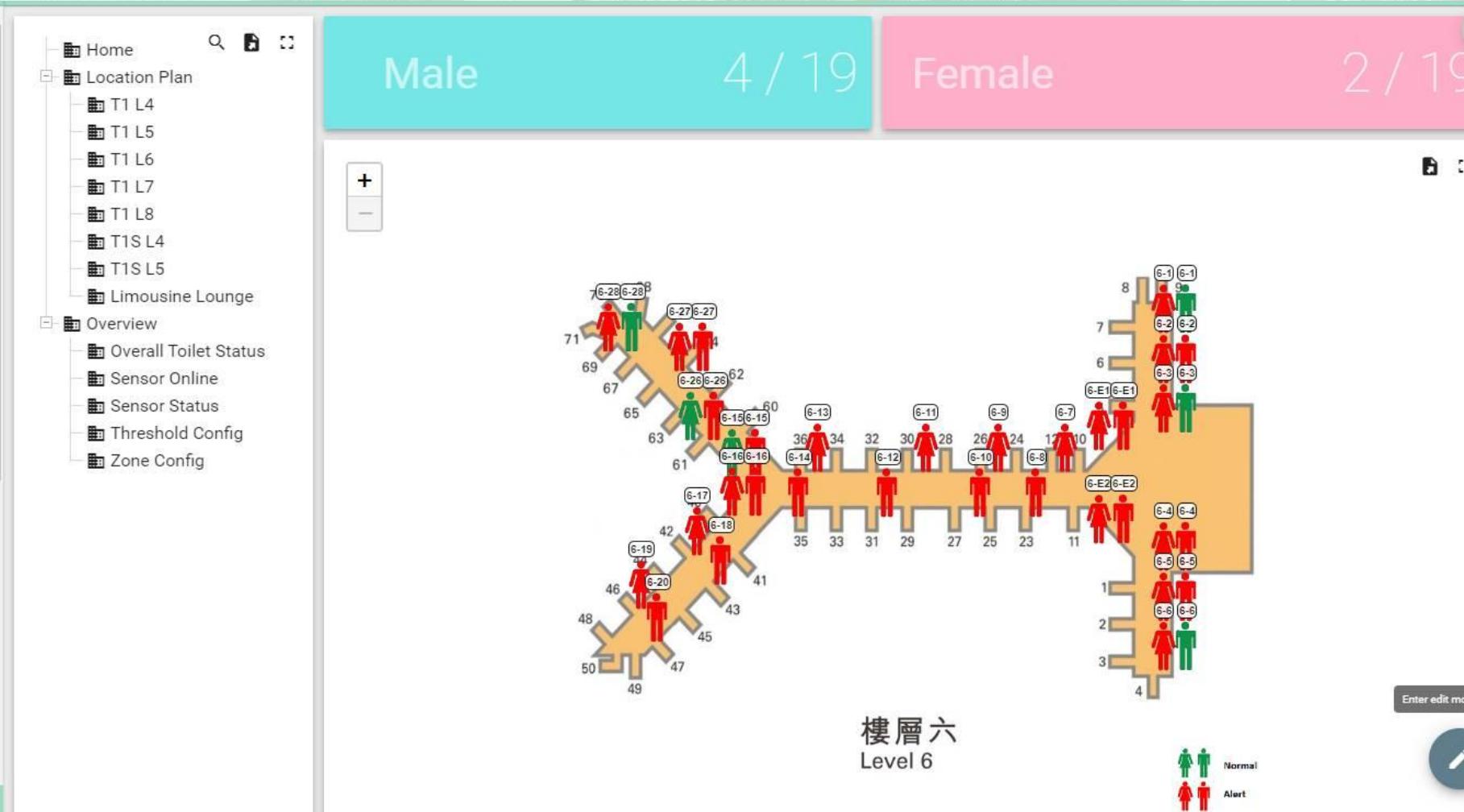
- Map View:** Shows a map of Hong Kong with a red marker on St George's Building.
- St George's Building Status:**
 - Alert: Alert
 - Power: Normal
 - Conn. Health: 100%
 - Work Order: 0
- System Status:** Four systems are listed with icons:
 - Car Park System (green car icon)
 - Entrance System (red door icon)
 - Flooding System (water droplets icon)
 - Fire System (fire extinguisher icon)

Screenshot 3: Club House THD

- Graph:** THD History from 2025-09-01 01:59:00 to 2025-09-01 20:00:00
 - Min: 0.76 %
 - Max: 1.48 %
 - Avg: 1.15 %
 - Latest: 1.2 %
- Guard Room Voltage:** History from 2025-09-01 01:58:00 to 2025-09-01 20:00:00
 - Min: 220 V
 - Max: 225 V
 - Avg: 222.58 V
 - Latest: 224 V
- Guard Room Current:** History from 2025-09-01 01:59:00 to 2025-09-01 20:01:00
 - Min: 18.52 A
 - Max: 19.92 A
 - Avg: 19.92 A
 - Latest: 19.92 A

Dashboard Designs - Smart Facility Management Platform

Dashboard for Smart Toilet System



Sample Screen for Mapview

HK Airport

HK Airport ▾

Entities

Realtime - last minute

Overview

Location Plan 3

T1 L4

T1 L5

T1 L6

T1 L7

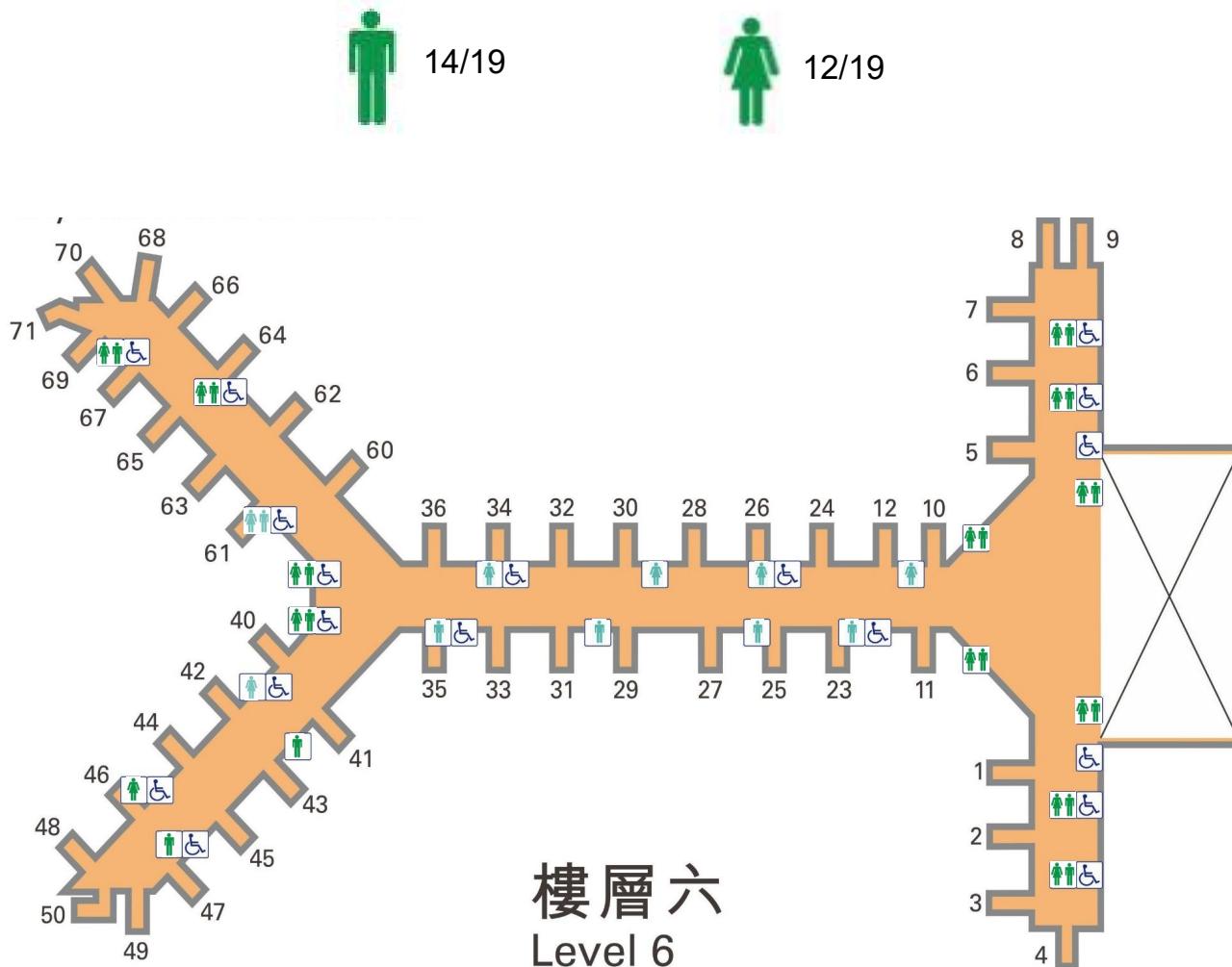
T1 | 8

NSC | 4

NSC | 5

Limousine Lounge

Report



樓層六
Level 6

Real time status icon

HK Airport Realtime - last minute  

Button click to open dashboard for all sensor status

Overview

Location Plan

- T1 L4
- T1 L5
- T1 L6**
- T1 L7
- T1 L8
- NSC L4
- NSC L5
- Limousine Lounge

Report

Toilet 6.8 Male

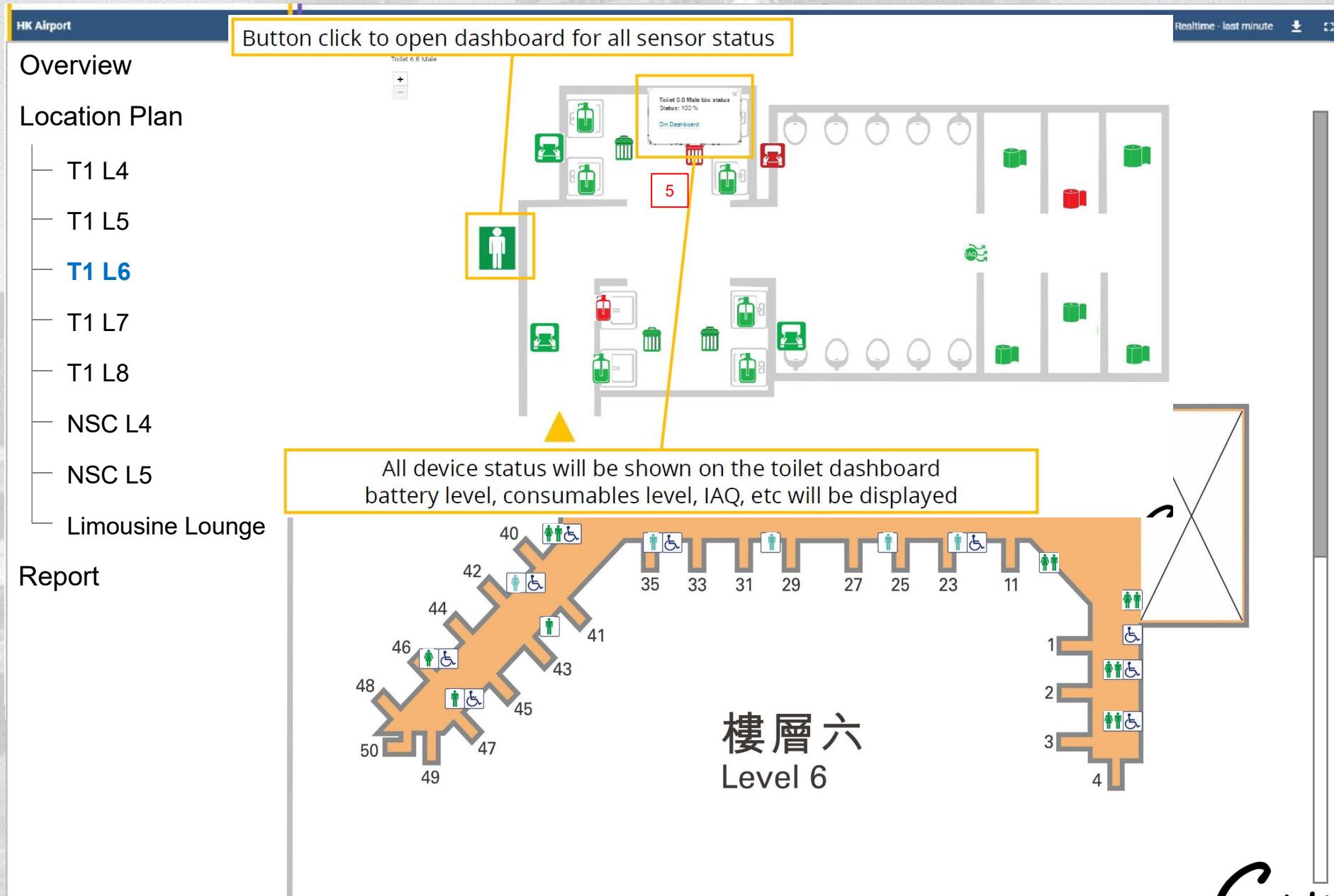
Toilet 6.8 Male bin status
Status: 100 %
Dim Dashboard

5

All device status will be shown on the toilet dashboard
battery level, consumables level, IAQ, etc will be displayed

40 42 44 46 48 50 49 47 45 43 41 35 33 31 29 27 25 23 11 1 2 3 4

樓層六
Level 6



Example dashboard for status summary, By Location (2000+ sensors)

HK Airport

Overview 1

Sensor Status

Overall Toilet Status

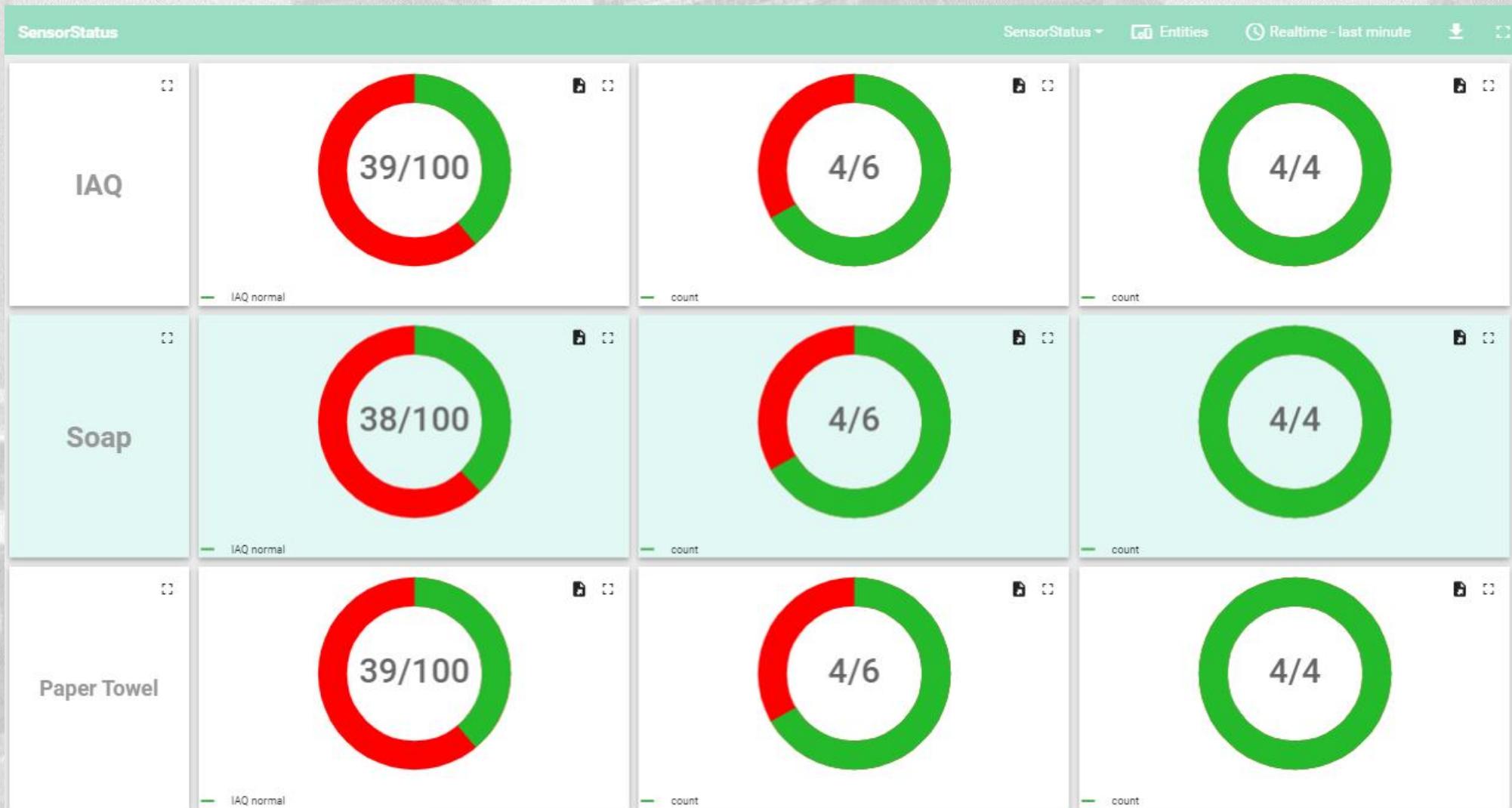
Location Plan

Report

Sensor Status

Category	Location	Status	Value
IAQ	T1	Green	90% 90/100
	NSC	Red	67% 4/6
	Limousine Lounge	Green	100% 2/2
Soap	T1	Green	90% 90/100
	NSC	Red	67% 4/6
	Limousine Lounge	Green	100% 2/2
Paper Towel	T1	Green	90% 90/100
	NSC	Red	67% 4/6
	Limousine Lounge	Green	100% 2/2

Overview - Sensor Status Sample Screen, By Sensor Type



Sample dashboard widget for sensor status

Example dashboard for status summary, By Alert Status

HK Airport

Overview 2

Sensor Status

Real-time Alert Status

Location Plan

Report

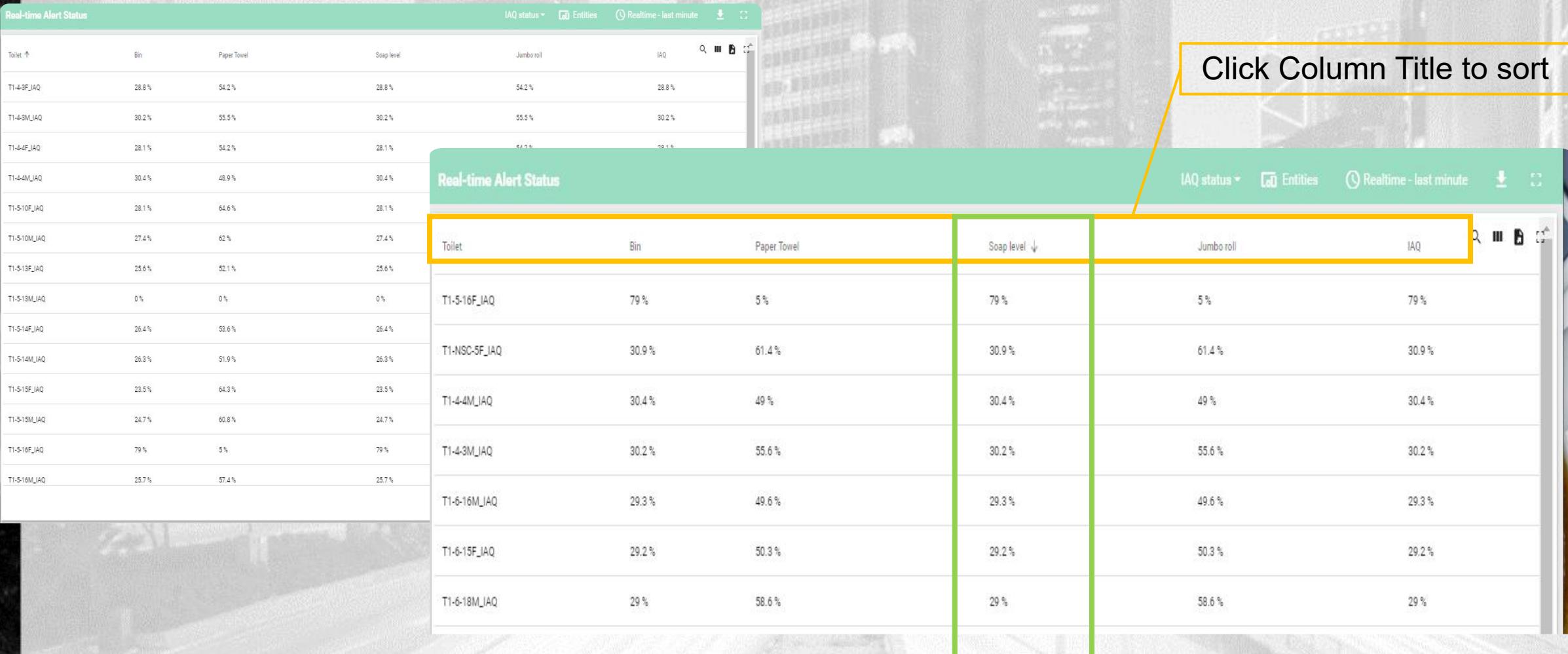
Real-time Alert Status (alert up = % up)

	<u>Location</u> ▼	<u>Toilet</u> ▼	<u>Bin</u> ▼	<u>Paper</u> ▼	<u>Soap</u> ▼	<u>Jumbo Roll</u> ▼	<u>IAQ</u> ▼
	T1 L5	5.1M	50%	80%	45%	52%	10%
	T1 L5	5.1F	100%	10%	20%	25%	10%
	T1 L5	5.2M	30%	0%	0%	10%	15%
	T1 L5	5.2F	20%	21%	48%	54%	42%
	T1 L5	5.3M	30%	0%	0%	10%	15%
	T1 L5	5.3F	20%	21%	48%	54%	42%

(Table can be sorted by sensor alert %)

$$\% = \frac{\text{nos. of sensors in alert level}}{\text{total nos. of sensors installed}} \times 100\%$$

Analytic - Sample Screen for Real Time Alert Status



The screenshot shows a 'Real-time Alert Status' dashboard with a table of data. The table has columns: Toilet, Bin, Paper Towel, Soap level, Jumbo roll, and IAQ. The 'Soap level' column is currently sorted in descending order (indicated by a downward arrow). A callout box with a green border and the text 'Sorting example - Soap' points to the 'Soap level' column. Another callout box with an orange border and the text 'Click Column Title to sort' points to the 'IAQ' column header.

Toilet	Bin	Paper Towel	Soap level	Jumbo roll	IAQ
T1-4-3F_JAQ	28.8 %	54.2 %	28.8 %	54.2 %	28.8 %
T1-4-3M_JAQ	30.2 %	55.5 %	30.2 %	55.5 %	30.2 %
T1-4-4F_JAQ	28.1 %	54.2 %	28.1 %	54.2 %	28.1 %
T1-4-4M_JAQ	30.4 %	48.9 %	30.4 %	48.9 %	30.4 %
T1-5-10F_JAQ	28.1 %	64.6 %	28.1 %	64.6 %	28.1 %
T1-5-10M_JAQ	27.4 %	62 %	27.4 %	62 %	27.4 %
T1-5-13F_JAQ	25.6 %	52.1 %	25.6 %	52.1 %	25.6 %
T1-5-13M_JAQ	0 %	0 %	0 %	0 %	0 %
T1-5-14F_JAQ	26.4 %	53.6 %	26.4 %	53.6 %	26.4 %
T1-5-14M_JAQ	26.3 %	51.9 %	26.3 %	51.9 %	26.3 %
T1-5-15F_JAQ	23.5 %	64.3 %	23.5 %	64.3 %	23.5 %
T1-5-15M_JAQ	24.7 %	60.8 %	24.7 %	60.8 %	24.7 %
T1-5-16F_JAQ	79 %	5 %	79 %	5 %	79 %
T1-NSC-5F_JAQ	30.9 %	61.4 %	30.9 %	61.4 %	30.9 %
T1-4-4M_JAQ	30.4 %	49 %	30.4 %	49 %	30.4 %
T1-4-3M_JAQ	30.2 %	55.6 %	30.2 %	55.6 %	30.2 %
T1-6-16M_JAQ	29.3 %	49.6 %	29.3 %	49.6 %	29.3 %
T1-6-15F_JAQ	29.2 %	50.3 %	29.2 %	50.3 %	29.2 %
T1-6-18M_JAQ	29 %	58.6 %	29 %	58.6 %	29 %

Sorting example - Soap

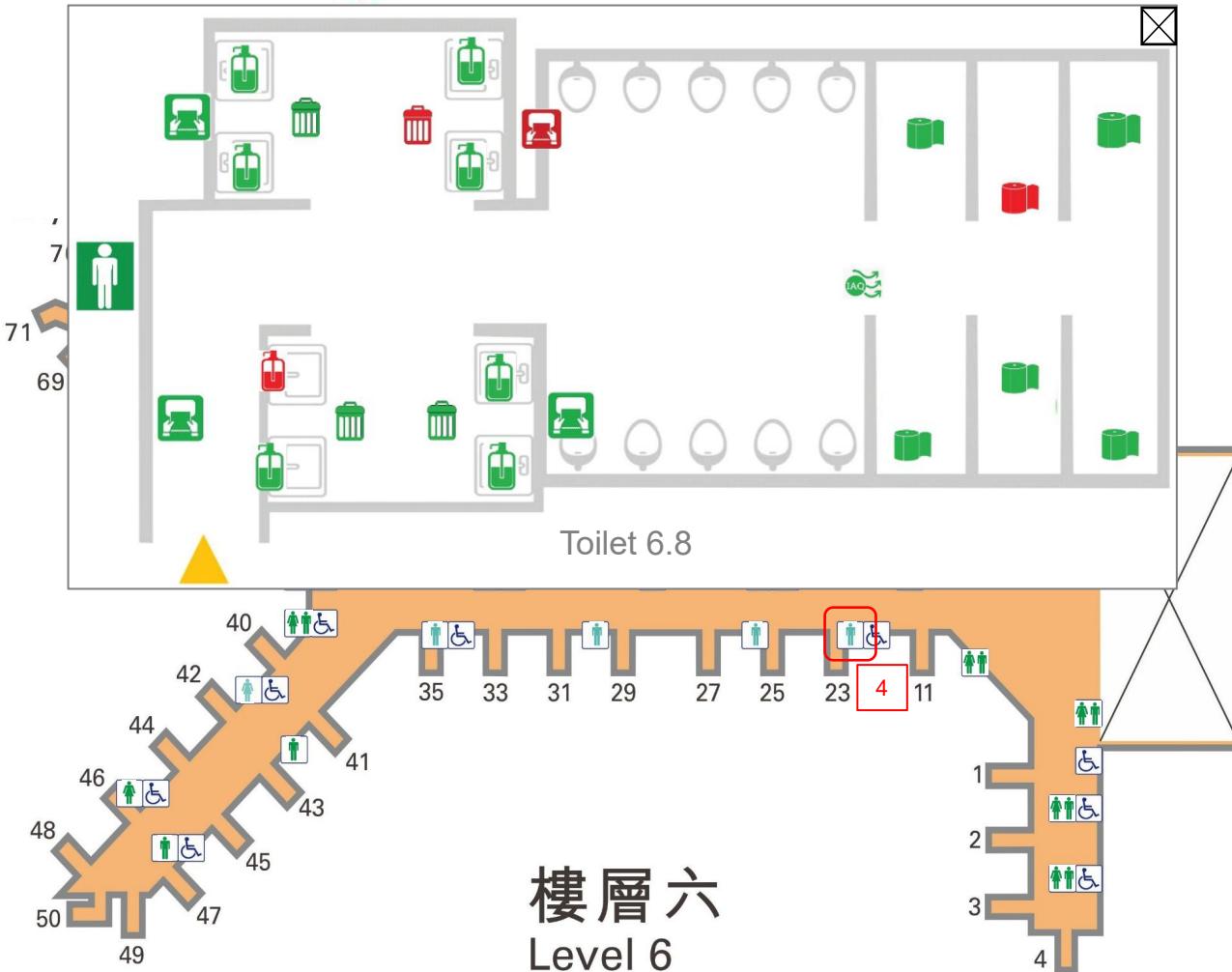
Overview

Location Plan

- T1 L4
- T1 L5
- T1 L6**
- T1 L7
- T1 L8
- NSC L4
- NSC L5
- Limous

Report

(Pop out layout plan)



Click icon to show link



Device Specific Dashboard

HK Airport

Entities

Realtime - last minute

Overview

Location Plan

- T1 L4
- T1 L5
- T1 L6**
- T1 L7
- T1 L8
- NSC L4
- NSC L5
- Limousine Lounge

Report

Entities hierarchy

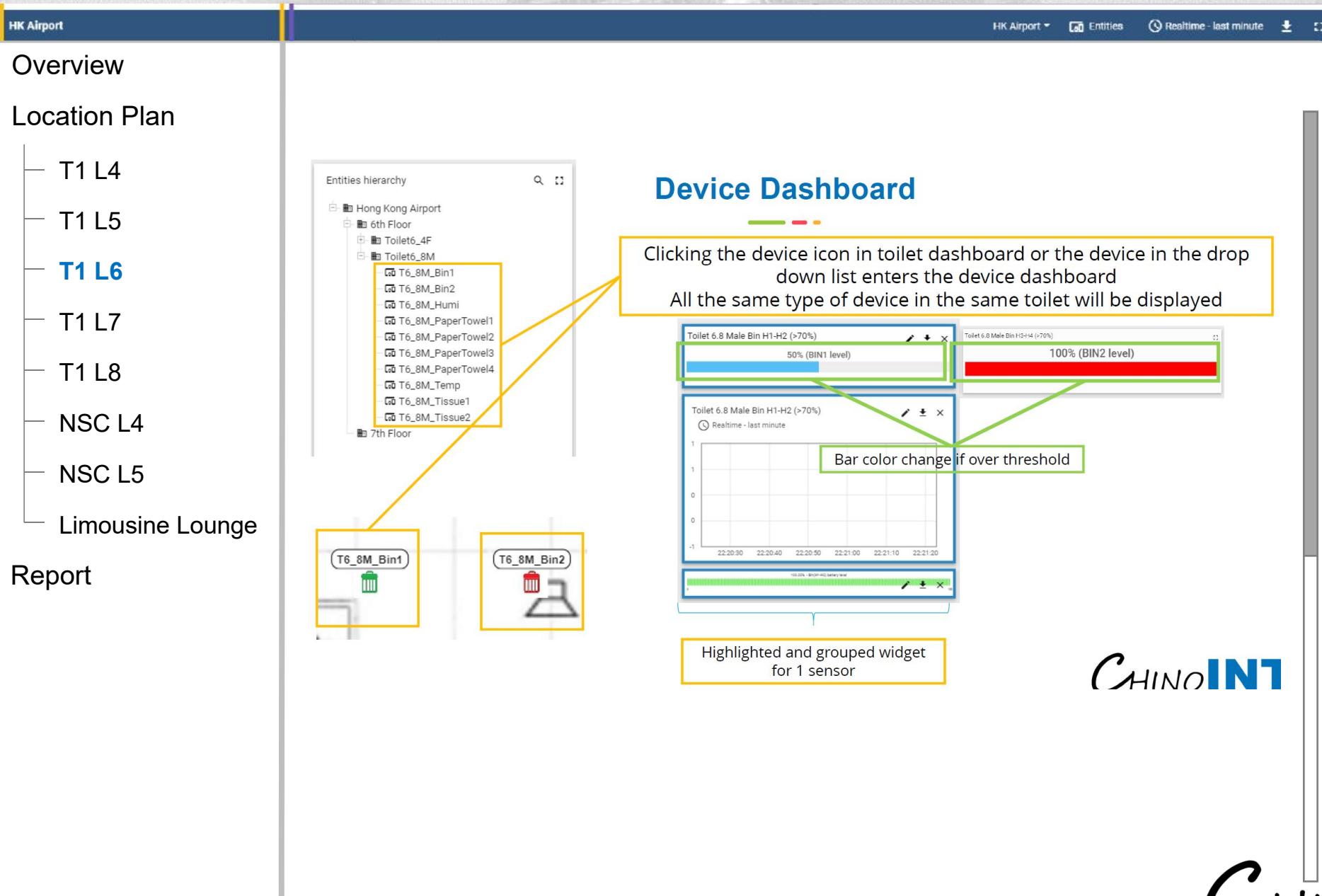
- Hong Kong Airport
 - 6th Floor
 - Toilet6_4F
 - Toilet6_8M
 - 7th Floor
 - T6_8M_Bin1
 - T6_8M_Bin2
 - T6_8M_Humi
 - T6_8M_PaperTowel1
 - T6_8M_PaperTowel2
 - T6_8M_PaperTowel3
 - T6_8M_PaperTowel4
 - T6_8M_Temp
 - T6_8M_Tissue1
 - T6_8M_Tissue2

Device Dashboard

Clicking the device icon in toilet dashboard or the device in the drop down list enters the device dashboard
All the same type of device in the same toilet will be displayed

Device Dashboard (Screenshot):

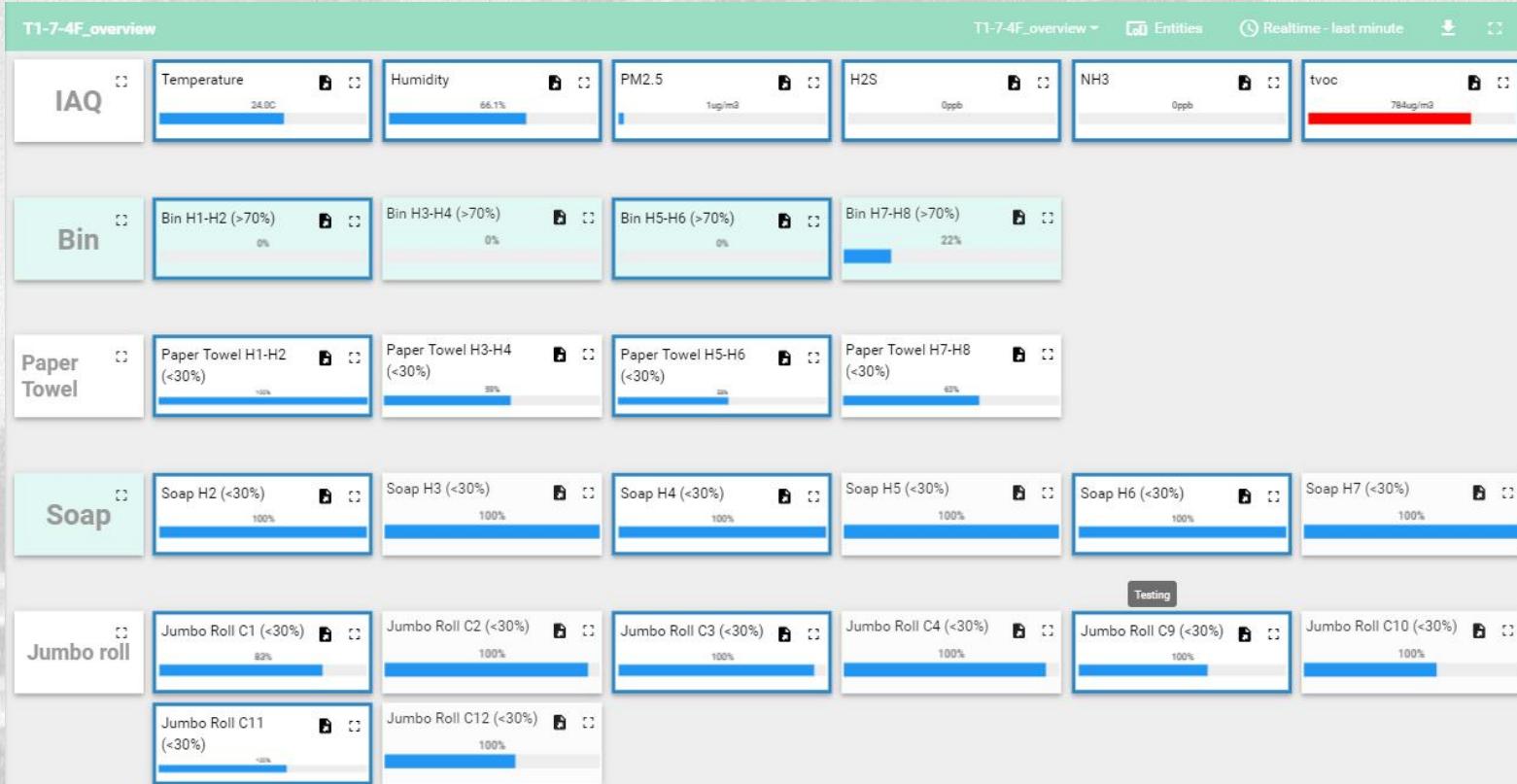
- Toilet 6.8 Male Bin H1-H2 (>70%)
50% (BIN1 level)
- Toilet 6.8 Male Bin H3-H4 (>70%)
100% (BIN2 level)
- Toilet 6.8 Male Bin H1-H2 (>70%)
Realtime - last minute
- Bar color change if over threshold
- Highlighted and grouped widget for 1 sensor



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Toilet overall sensors status



Analytic for Alert Notification

HK Airport

HK Airport ▾ Entities Realtime - last minute

Overview

Location Plan

Report 6

Alert Notification Summary

Alert Response Summary

Alert Notification Summary

Time period

Date from 06 / 22 / 2021 Time from 05:24 PM

Date to 06 / 23 / 2021 Time to 05:24 PM

Location	Toilet	IAQ	Soap				Bin			Paper Towel			Jumbo Roll			
			H1	H2	H3	Avg. alert rate	H1-H2	H3-H4	Avg. alert rate	H1-H2	H3-H4	Avg. alert rate	C1	C2	C3	Avg. alert rate
T1 L5	5E2 M	3	1	2	9	4	2	2	2	2	2	2	0	0	0	0
T1 L5	5E2 F	1	8	1	5	4.67	4	4	4	4	4	4	0	0	0	0
T1 L6	6.1M	2	5	2	2	3	2	5	3.5	2	5	3.5	0	0	0	0
T1 L6	6.1F	10	6	5	2	4.33	8	N/A	8	8	N/A	8	0	0	0	0
T1 L6	6.2M	5	3	8	N/A	5.5	6	N/A	6	6	N/A	6	0	0	0	0
T1 L6	6.2F	3	2	6	4	4	7	8	7.5	7	8	7.5	0	0	0	0
T1 L6	6.3M	8	1	1	5	2.33	2	9	5.5	2	9	5.5	0	0	0	0
NSC L4	T01 M	3	4	2	N/A	3	0	N/A	0	0	N/A	0	0	0	0	0
NSC L4	T02F	3	8	3	N/A	5.5	0	N/A	0	0	N/A	0	0	0	0	0
Limousine Lounge	3L009 M	5	5	4	NA	4.5	0	NA	0	0	NA	0	0	0	0	0

Alert Response Summary

HK Airport

HK Airport

Entities

Realtime - last minute

Overview

Location Plan

Report 7

Alert Notification Summary

Alert Response Summary

Alert Response Summary

Time period

Date from Time from

Date to Time to

Location: T1 L6

Toilet: 6.8M

Sensor: Bin H1-H2

<u>Alert Start</u> ▼	<u>Alert Ends</u> ▼	<u>Response Time</u> ▼
05:30pm	06:30pm	60 mins
08:00pm	08:10pm	10 mins
09:45pm	10:00pm	15 mins

Event Log

Alarm Log Record

🕒 Realtime - last 30 days



Timestamp ↓

Alarm

Probe1

2024-02-09 11:08:35

WL-TKO-1F-001

Alarm

2024-02-09 11:03:31

WL-TKO-1F-001

Alarm

2024-02-09 10:58:26

WL-TKO-1F-001

Alarm

2024-02-09 10:53:22

WL-TKO-1F-001

Alarm

2024-02-09 10:48:17

WL-TKO-1F-001

Alarm

2024-02-09 10:43:13

WL-TKO-1F-001

Alarm

Items per page:

10

1 - 10 of 39

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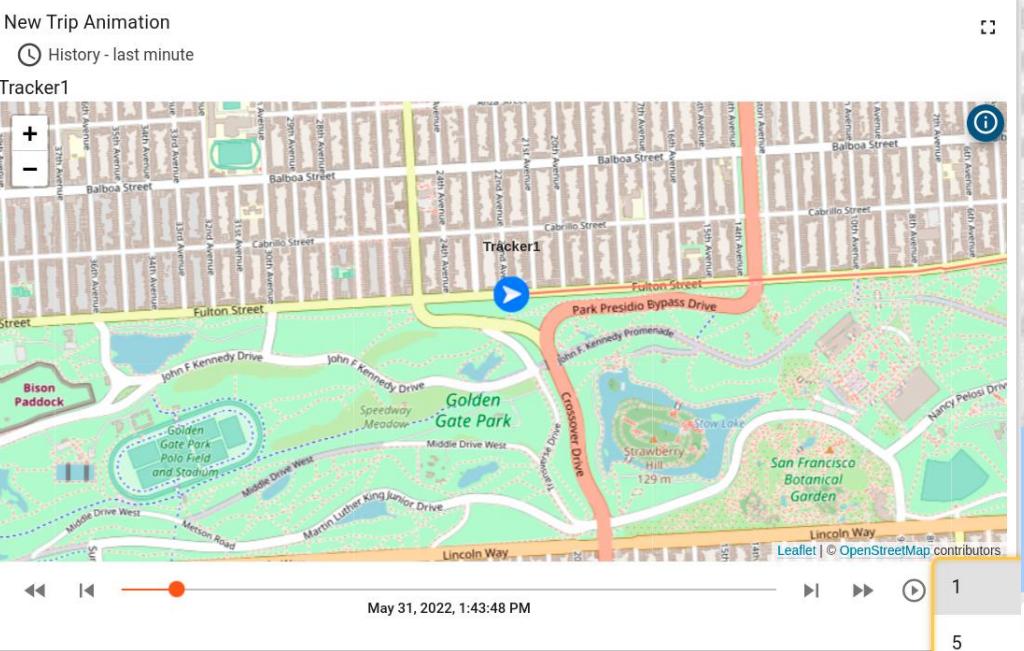
Google Map Integration

Dashboard1

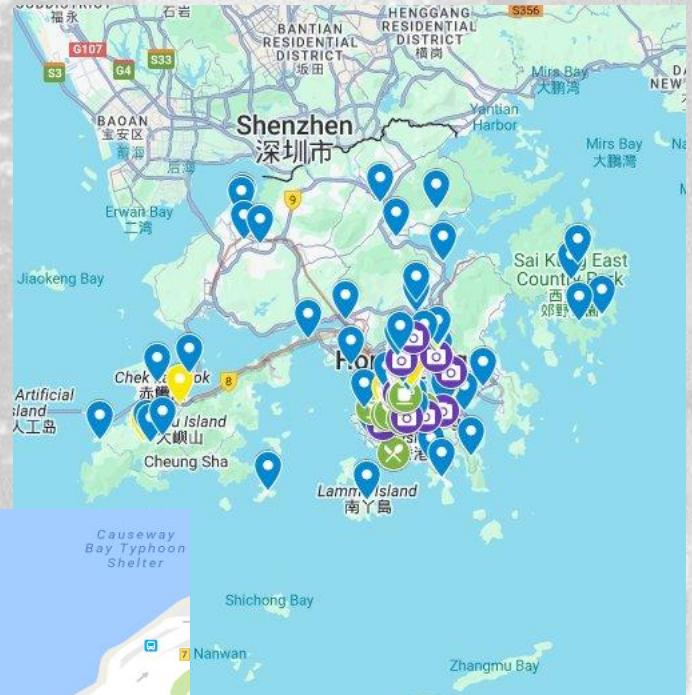
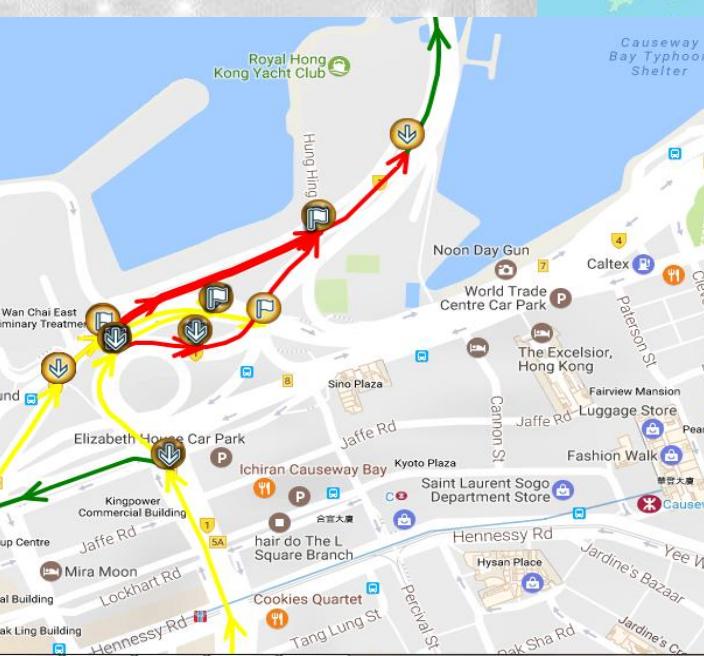
New Trip Animation

⌚ History - last minute

Tracker1

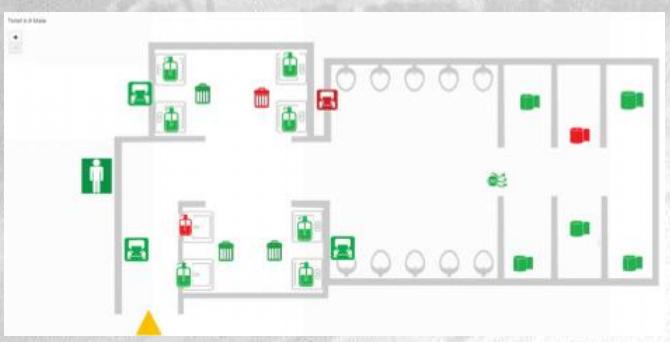


May 31, 2022, 1:43:48 PM

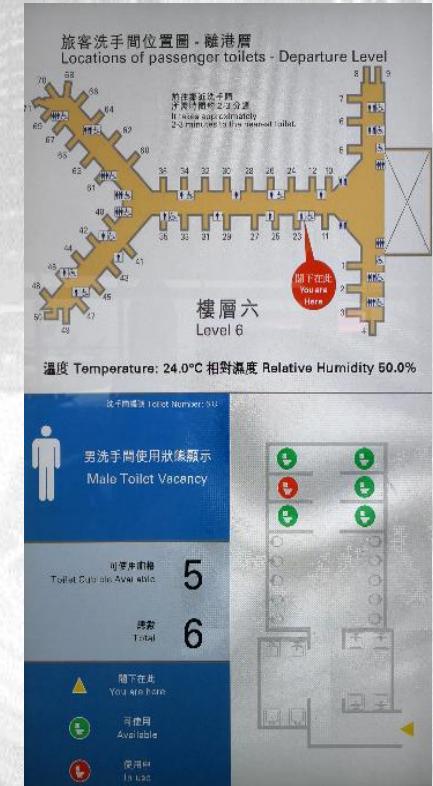
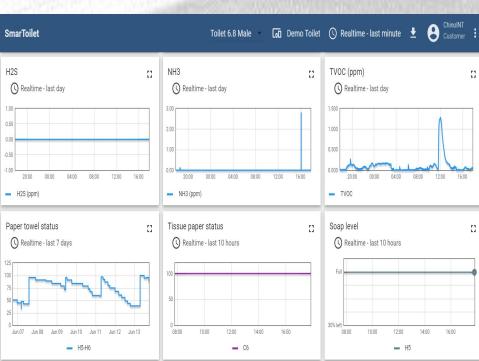


More Dashboard Examples

Dashboard for Site Monitoring & Video Streaming



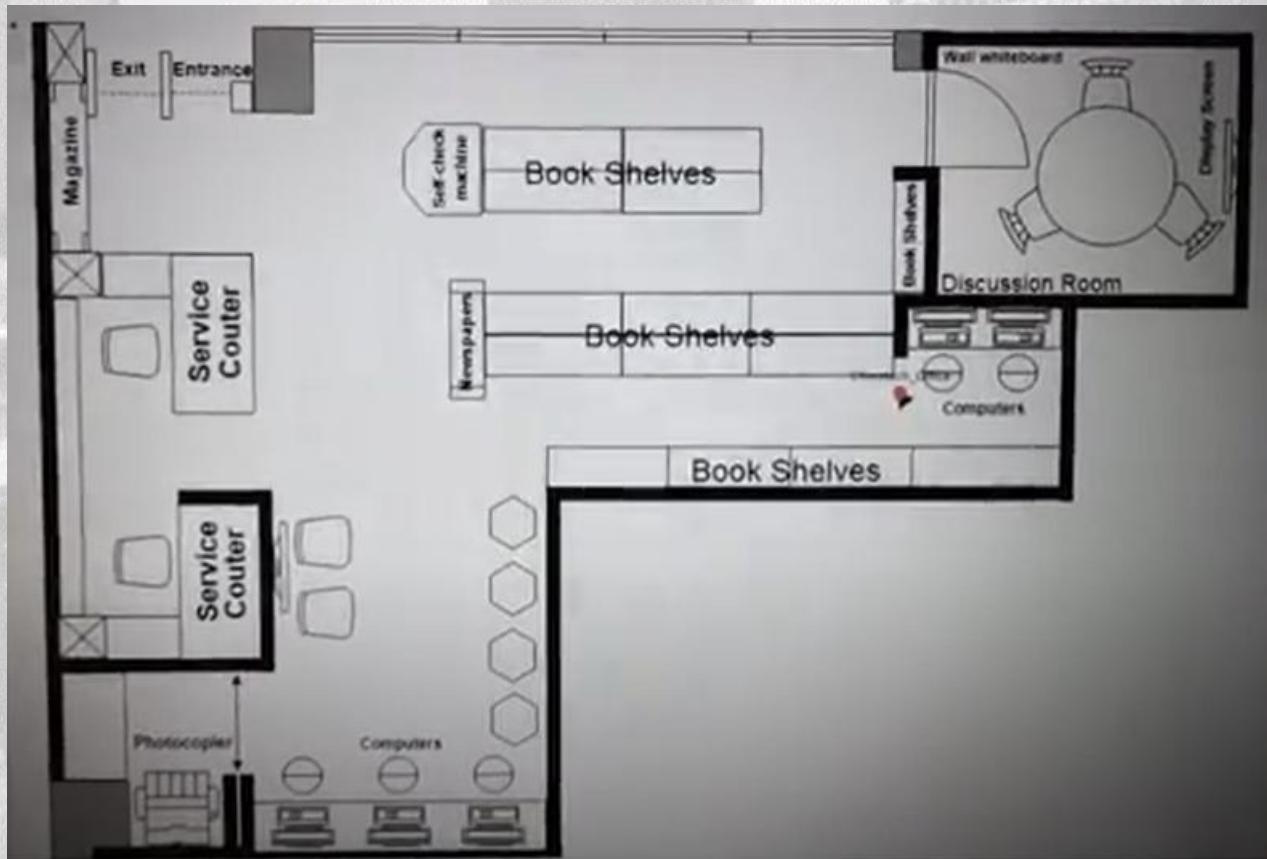
Clean and clear dashboarding is one of the key element in an IoT system. The ChinoINT IOT platform provides easy to use dashboard, with multi-layer user account settings. GUI Maintenance Portal is provided with the platform. Both desktop and mobile version (Android and IOS) are available.



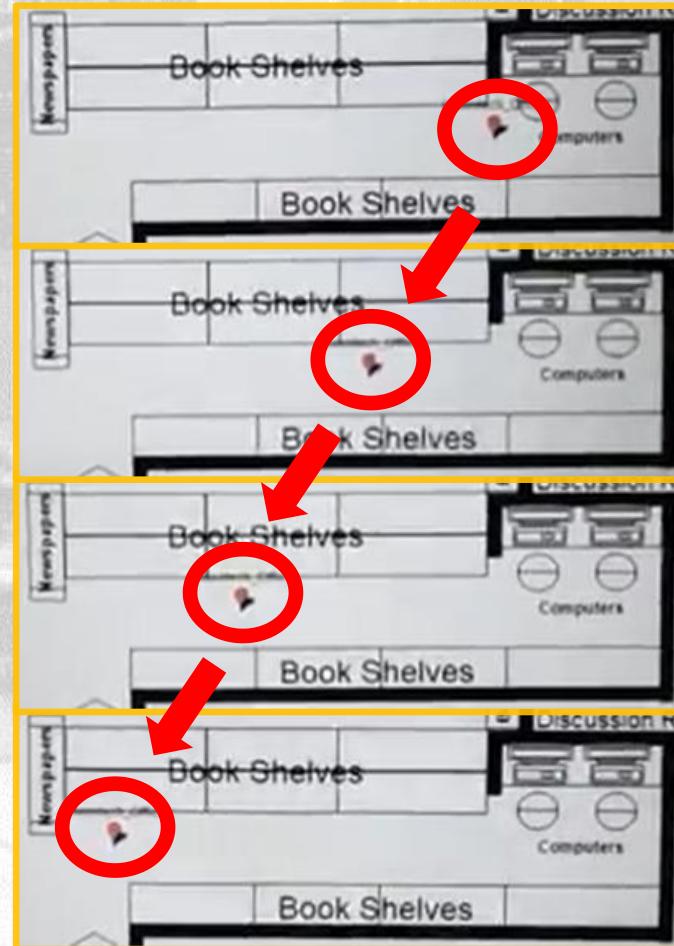
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Dashboard for Real Time Location System (RTLS)

Real Time GUI for asset and people tracking
Easy to use interface



Real Time Tracking



Dashboard for Fall Detection System

Dashboard: Overall status

ChinoINT Fall Detection Monitoring Platform

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Accessible Toilet Real Time Status

Sensor Name	Status	Occupancy	Overstay	ST Motionless	Motionless	ST fall	Fall	Last Update Time
1/F accessible toilet 101	Available	●	●	●	●	●	●	18/05/2024 18:38:25
1/F accessible toilet 102	Occupied	●	●	●	●	●	●	18/05/2024 18:38:22
2/F accessible toilet 201	Occupied	●	●	●	●	●	●	18/05/2024 18:38:34
3/F accessible toilet 301	Occupied	●	●	●	●	●	●	18/05/2024 18:38:22
5/F accessible toilet 501	Occupied	●	●	●	●	●	●	18/05/2024 18:38:31

M+

Accessible Toilet Sensor Log Demo units.

CHINOINT
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Sensor Alarm Log

Realtime - Current half year

Timestamp	sensor	Event	Category
2024-05-19 10:15:33	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-19 10:14:59	3/F accessible toilet 301	Overstay Alarm	●
2024-05-19 10:14:36	1/F accessible toilet 102	Motionless Alarm	●
2024-05-19 10:13:07	2/F accessible toilet 201	Short Term Motionless Alarm	●
2024-05-19 10:12:19	1/F accessible toilet 102	Motionless Alarm	●
2024-05-18 19:17:23	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-18 19:15:50	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-18 19:14:04	5/F accessible toilet 501	Fall Down Alarm	●

M+

Fall Down

Timestamp	sensor	Event	Category
2024-05-19 10:15:33	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-18 19:17:23	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-18 19:15:50	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-18 19:14:04	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-18 19:04:52	5/F accessible toilet 501	Fall Down Alarm	●
2024-05-18 19:03:51	5/F accessible toilet 501	Fall Down Alarm	●

Eg.1 Type “Fall Down”, it will list all “Fall Down Alarm” event

Search

Category

●

●

Log support “Search” feature

CHINOINT
SENSE CONNECT

Dashboard for Fall Detection System

Eg.2 Type "2/F accessible toilet 201", it will list only that sensor event

Timestamp ↓

Timestamp	sensor	Event	Category
2024-05-19 10:13:07	2/F accessible toilet 201	Short Term Motionless Alarm	●
2024-05-18 17:45:25	2/F accessible toilet 201	Short Term Motionless Alarm	●

Notification

New alarm 'Fall Alarm (跌倒警報)' Just now

5/F accessible toilet 501 - Someone Fall detected [發現有人跌倒]

Critical

View all

Fall lastActivityTime

System notification: onscreen alert when alarm arises

Messenger App notification - Telegram

Fall Detection Monitoring Platform Administrator 2 members

Chinoint

[2024/05/19 11:25:25] 5/F accessible toilet 501 Fall Alarm (5/F accessible toilet 501 跌倒警報) 11:25 AM

[2024/05/19 11:26:11] 1/F accessible toilet 101 Fall Alarm (1/F accessible toilet 101 跌倒警報) 11:26 AM

[2024/05/19 11:26:32] 2/F accessible toilet 201 Fall Alarm (2/F accessible toilet 201 跌倒警報) 11:26 AM

[2024/05/19 11:26:52] 3/F accessible toilet 301 Fall Alarm (3/F accessible toilet 301 跌倒警報) 11:26 AM

[2024/05/19 11:27:13] 1/F accessible toilet 102 Fall Alarm (1/F accessible toilet 102 跌倒警報) 11:27 AM

Message

Export as PDF

Export as PNG

Export as JPEG

Export data to CSV...

Export data to XLS...

Export data to XLSX...

Export JSON configuration

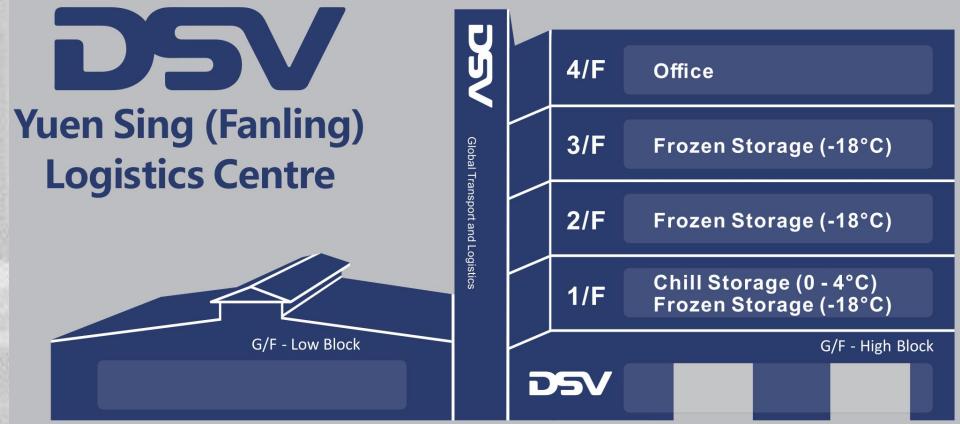
Data & Report

CHINOINT
SENSE CONNECT

Warehouse and Walk-in Freezer Monitoring - DSV

For this client, they operate walk-in freezer and warehouse. Staff have to work in a cold and enclosed spaces all the time. To keep their staff safe and with ZERO incidence, they invited ChinoINT to design a RTLS for that is suitable for their entire warehouse building.

The most important features are the real time location tracking, and environment monitoring.



CHINOINT

3/F status

12:49:18 Thu, 24 October 2024

3/F status

3/F Frozen area

3/F Chill area

3/F air-con area

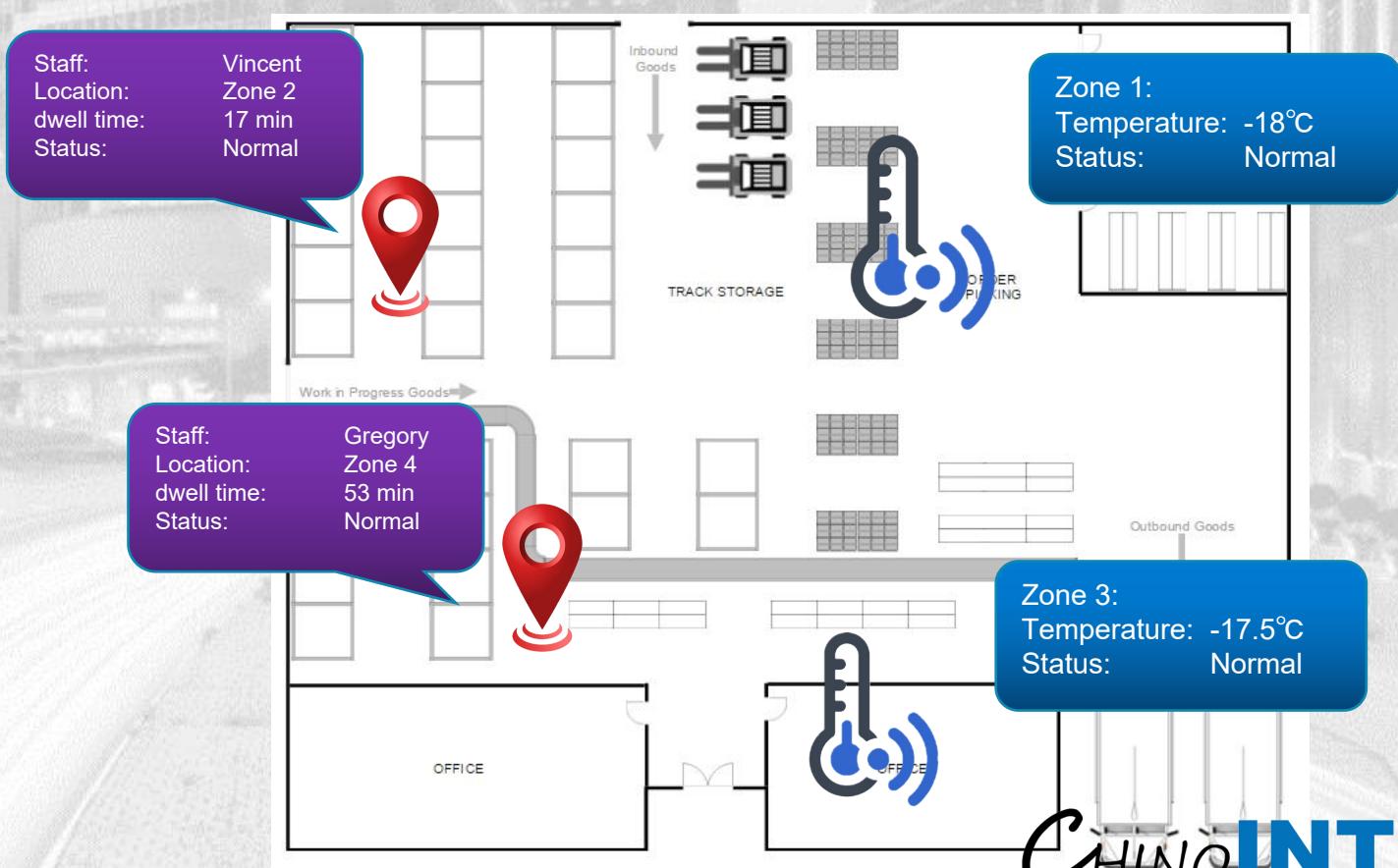
Staff: Location: dwell time: Status:

Vincent Zone 2 17 min Normal

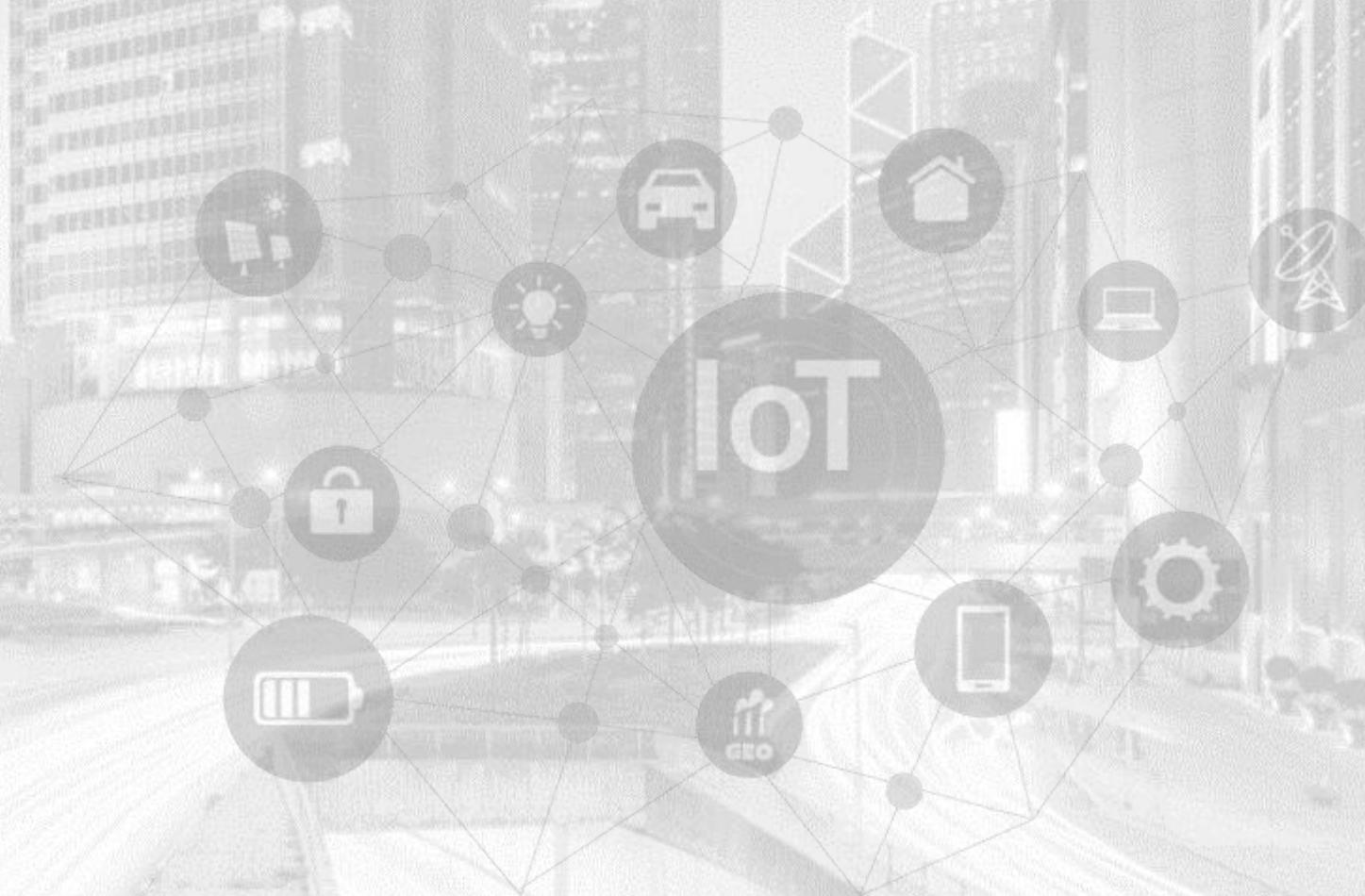
Gregory Zone 4 53 min Normal

ChinoINT SENSE CONNECT

This screenshot shows the ChinoINT RTLS dashboard for the 3/F status. It includes a map of the 3/F floor with staff locations marked by green dots. Below the map are three line graphs showing temperature data for the Frozen area, Chill area, and air-con area over the last 5 hours. A sidebar on the left lists various system components and settings.



Solutions & References



Smart Solutions Done Smartly

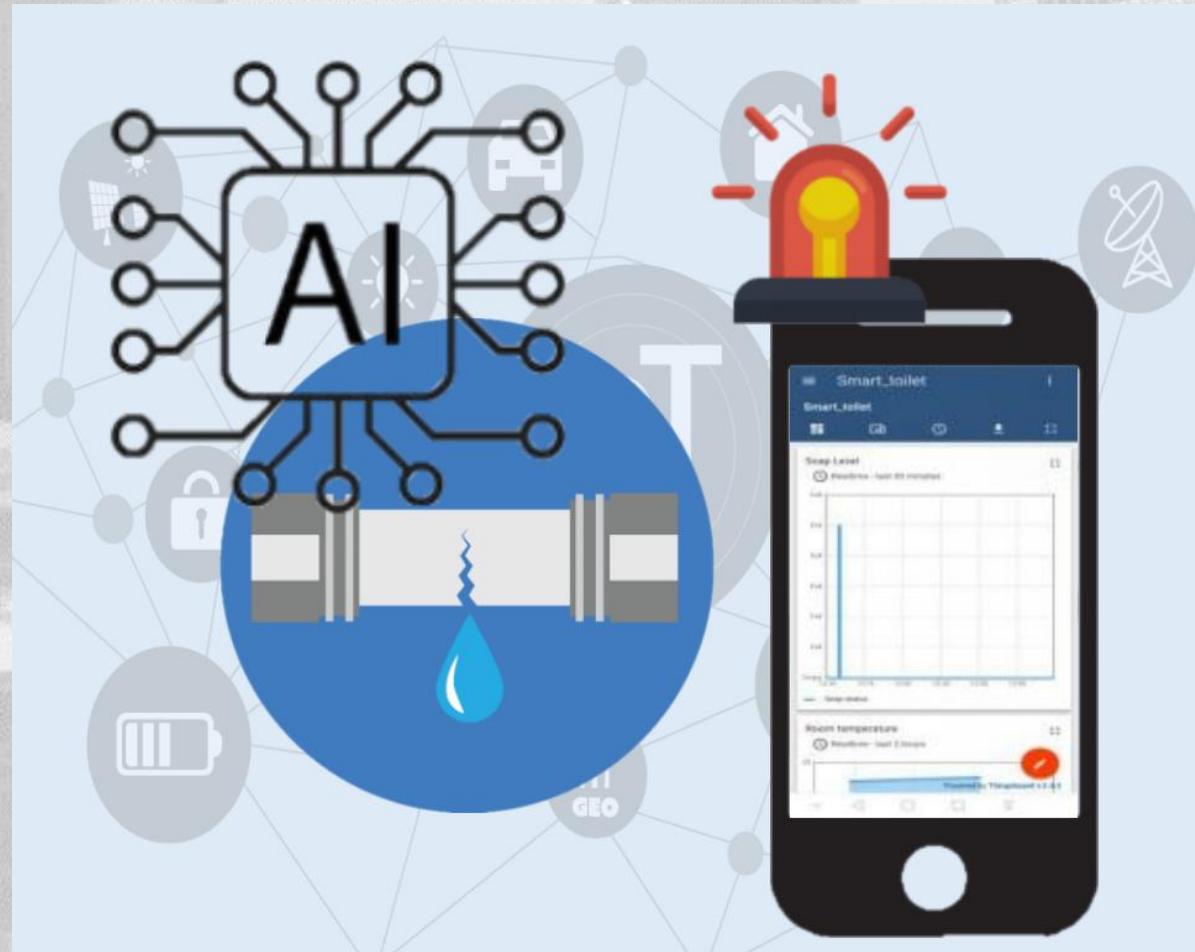
Region	Name	End user	Year of Completion
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2020
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2019
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2022
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2022
Hong Kong	SSSS - Turbine Work Safety Video Analytic	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - Personnel management for containers during COVID	CLP - Castle Peak Power Plant	2021
Hong Kong	SSSS - 5G enabled Smart Construction Site Monitoring	Nga Ying Decoration Ltd	2023
Hong Kong	SSSS - 5G enabled Smart Construction Site Monitoring	Por Mee Factory Building	2023
Hong Kong	SSSS - UWB-enabled Collision Avoidance System for Vehicle	SUEZ - IWTS	2021
Hong Kong	Smart Metering - LoRaWan (POC)	SUEZ - IWTS	2021
Hong Kong	Smart Toilet - LoRaWan	Hong Kong International Airport	2022
Hong Kong	Smart Toilet - LoRaWan (POC)	Poly University	2021
Hong Kong	Smart Facility Management - LoRaWan @ M+	ASD	2021
Hong Kong	Smart Facility Management - LoRaWan	Kadoorie Estates Limited	2020-2023
Hong Kong	IOT Hub	Kai Tak Sports Park	2023
Macau	Smart Elderly Center - Zigbee	Vila Medalena Macau	2019
Hong Kong	Smart Metering	Poly U	2020
Hong Kong	Smart Toilet	Poly U	2022
Hong Kong	Smart Facility Management - Water leakage Detection	Queensway Government Office	2022
Hong Kong	Smart Visitor Management - People Counting	Hong Kong U	2020
Hong Kong	Smart Facility Management Notification Platform	Queensway Government Office	2023
Hong Kong	Smart Chiller Plant Monitoring	EMSD	2022
Hong Kong	Smart Chiller Plant Monitoring	EMSD	2023
Hong Kong	Smart Chiller Plant Monitoring	Poly U	2023

Reference - Facility Management

Region	Name	End user	Year of Completion
Hong Kong	Smart Metering - LoRaWan	SUEZ - IWTS	2021
Hong Kong	Smart Toilet - LoRaWan	Hong Kong International Airport	2022
Hong Kong	Smart Facility Management - LoRaWan	M+ - ASD	2021
Hong Kong	Smart Facility Management - LoRaWan	Kadoorie Estates Limited	2020-2023
Hong Kong	IOT Hub	Kai Tak Sports Park	2023
Hong Kong	Smart Metering	Poly U	2020
Hong Kong	Smart Toilet	Poly U	2022
Hong Kong	Smart Facility Management - Water leakage Detection	Queensway Government Office	2022
Hong Kong	AI Pipe Blockage Detection	Legislation Council	2024
Hong Kong	Smart Chiller Plant - Yau Ma Tei Public Cargo smart switchboard	EMSD	2022
Hong Kong	Smart Chiller Plant - Po Ning Road Clinic Smart Switchroom	EMSD	2022
Hong Kong	Smart Chiller Plant - Hong Kong Heritage Museum	EMSD	2023
Hong Kong	Smart Chiller Plant - Digitalisation of switchrooms at Lockhart Road MSB	EMSD	2023
Hong Kong	Smart Chiller Plant - Hong Kong Museum of Coastal Defense	EMSD	2023
Hong Kong	Smart Chiller Plant & AI Pipe Blockage Detection	Poly U	2023



AI Pipe Blockage Detection - Legislation Council & Poly U



Readily Deployed Solution

Chinoint Pipe Blockage Detection system has been deployed in Hong Kong, including local university and commercial buildings



Smart Chiller Plant and Switch Room Monitoring - EMSD & Poly U



Project Background

To maintain the environment safety and real time monitoring

Project Description

LoRaWan air quality sensors including Chlorine sensors are deployed. LoRaWan sensors such as people counter, water leakage, piep monitoring are being installed.

ChinoINT successfully deployed a LoRaWan infrastructure and achieved the above goals.

Smart Facility Management - Kadoorie Management



Project Background

A Hong Kong Real Estates Company would like to deploy a IoT system to collect the building alarms from remote sites (services apartment)

Project Description

LoRa sensors/LoRa Nodes for dry contact are deployed at their main building and remote site buildings to collect the alarm for water leakage, temperature & RH, water level, CT. pipe pressure, etc and transfer the alarms to main office via Internet.

ChinoINT successfully deployed a LoRaWan infrastructure and achieved the above goals.

Queensway Government Office - Water Leakage Detection & GWIN Integration



Project Background

To deploy water leakage sensors and data integration to GWIN

Automated Air/Con Automation @ M+

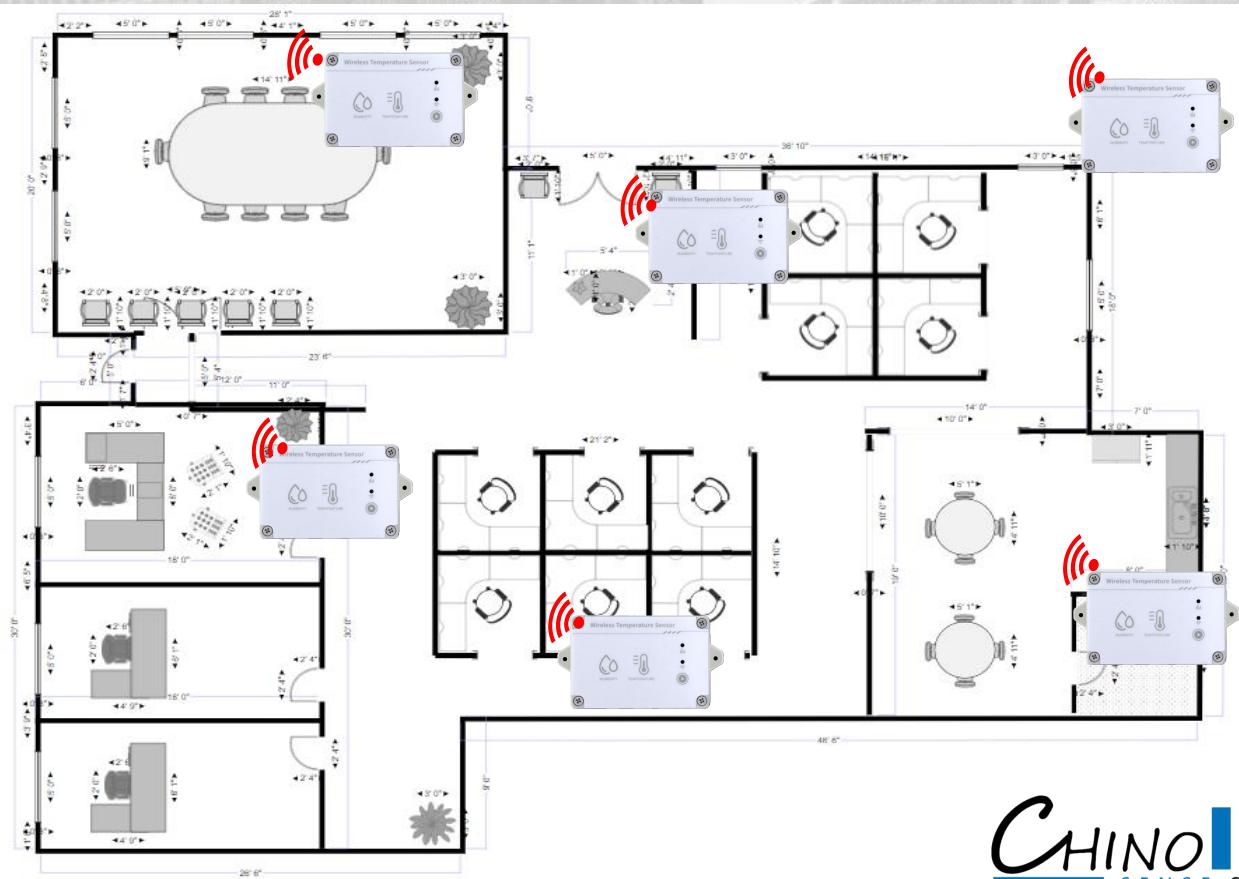
ChinoINT masters on wireless technology.

Temperature and humidity feeds to the IoT gateway.

Feedback to BMS and control HVAC locally



←→
LoRa

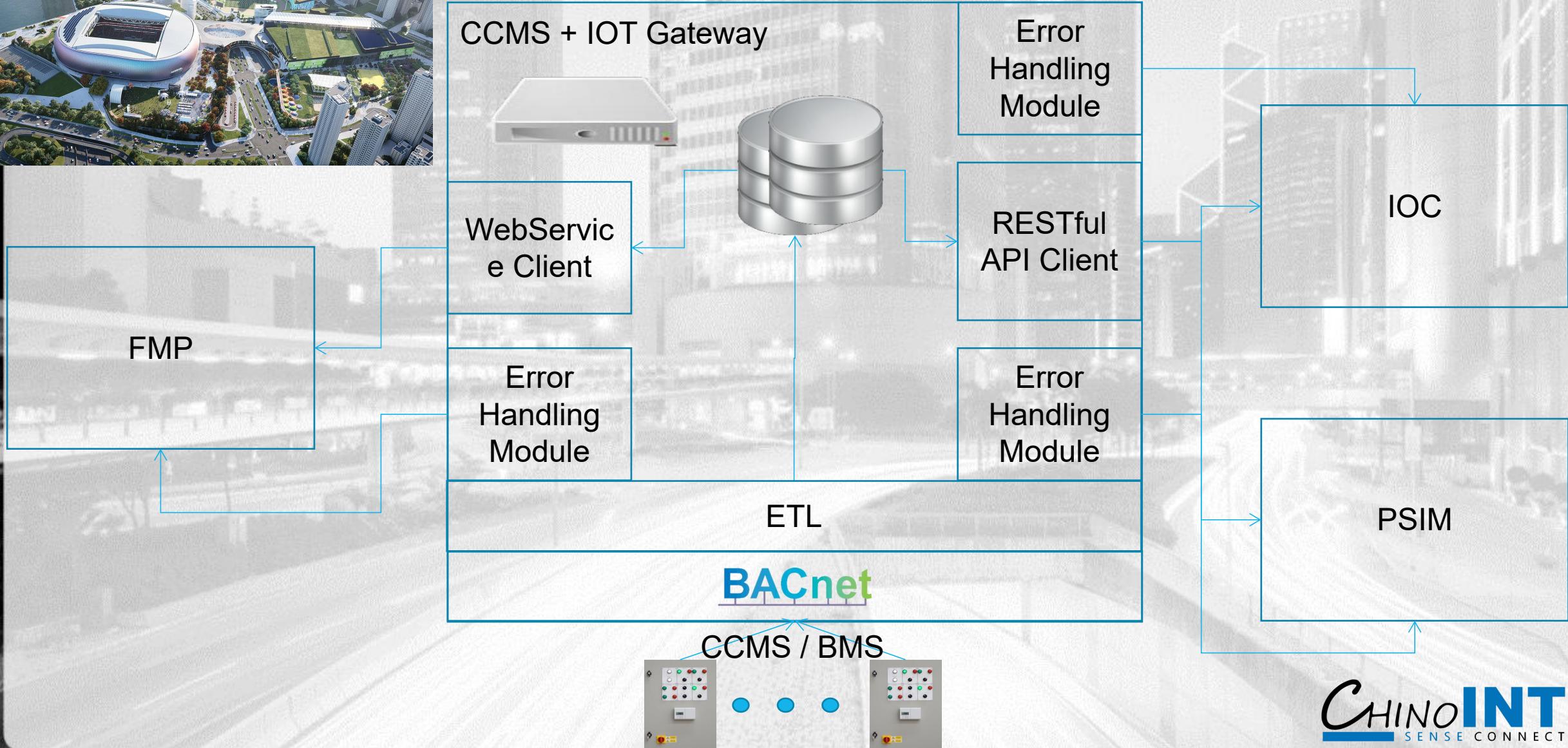


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SENSE CONNECT

v202106010



IOT Hub @ Kai Tak Sports Park



Smart Metering @ Transfer Station

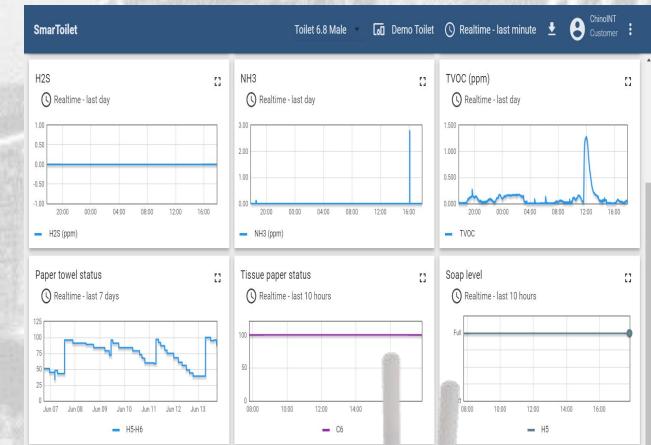
ChinoINT has show-cased our strengths in IOT technologies

We have enabled smart metering solution in Transfer Station in Hong Kong

Not only providing IOT metering with fully integrated dashboard with dashboard for real time and historical data, and also enabling real time analytic and alerts with extra values

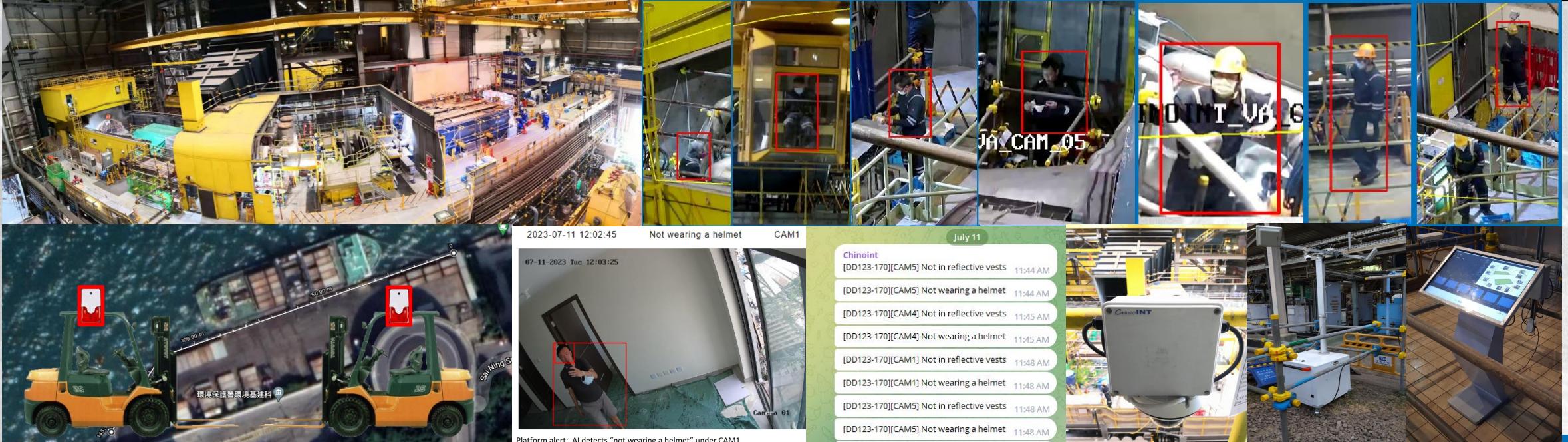


LoRaWan Meter
Battery powered
(4.5 years battery life)



Reference - SSSS

Region	Name	End user	Year of Completion
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2020
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2019
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2022
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2022
Hong Kong	SSSS - Turbine Work Safety Video Analytic	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - Personnel management for containers during COVID	CLP - Castle Peak Power Plant	2021
Hong Kong	SSSS - 5G enabled Smart Construction Site Monitoring	Nga Ying Decoration Ltd	2023
Hong Kong	SSSS - 5G enabled Smart Construction Site Monitoring	Por Mee Factory Building	2023
Hong Kong	SSSS - UWB-enabled Collision Avoidance System for Vehicle	SUEZ - IWTS	2021



Video Analytic of SSSS - CLP



SSSS - Confined Space Management @ Power Plant & University



SSSS - Collision Avoiding System @ Transfer Station



ChinoINT also masters on latest technology such as UWB
so design real time monitoring system to raise safety to the next level

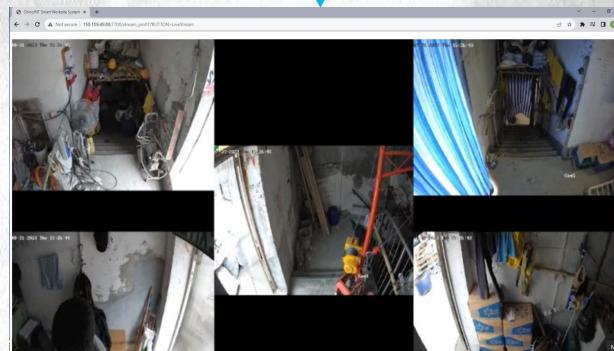


Rich functionality

- Human face recognition
- human body recognition
- license plate recognition
- smoke and flame recognition
- helmet recognition
- phone calling recognition
- cigarette smoking
- gathering of people recognition
- work clothes recognition
- leaving work and sleeping recognition
- zone intrusion warning
- human fall recognition
- running recognition
- clothes color
- Fire escape blockage identification
- etc



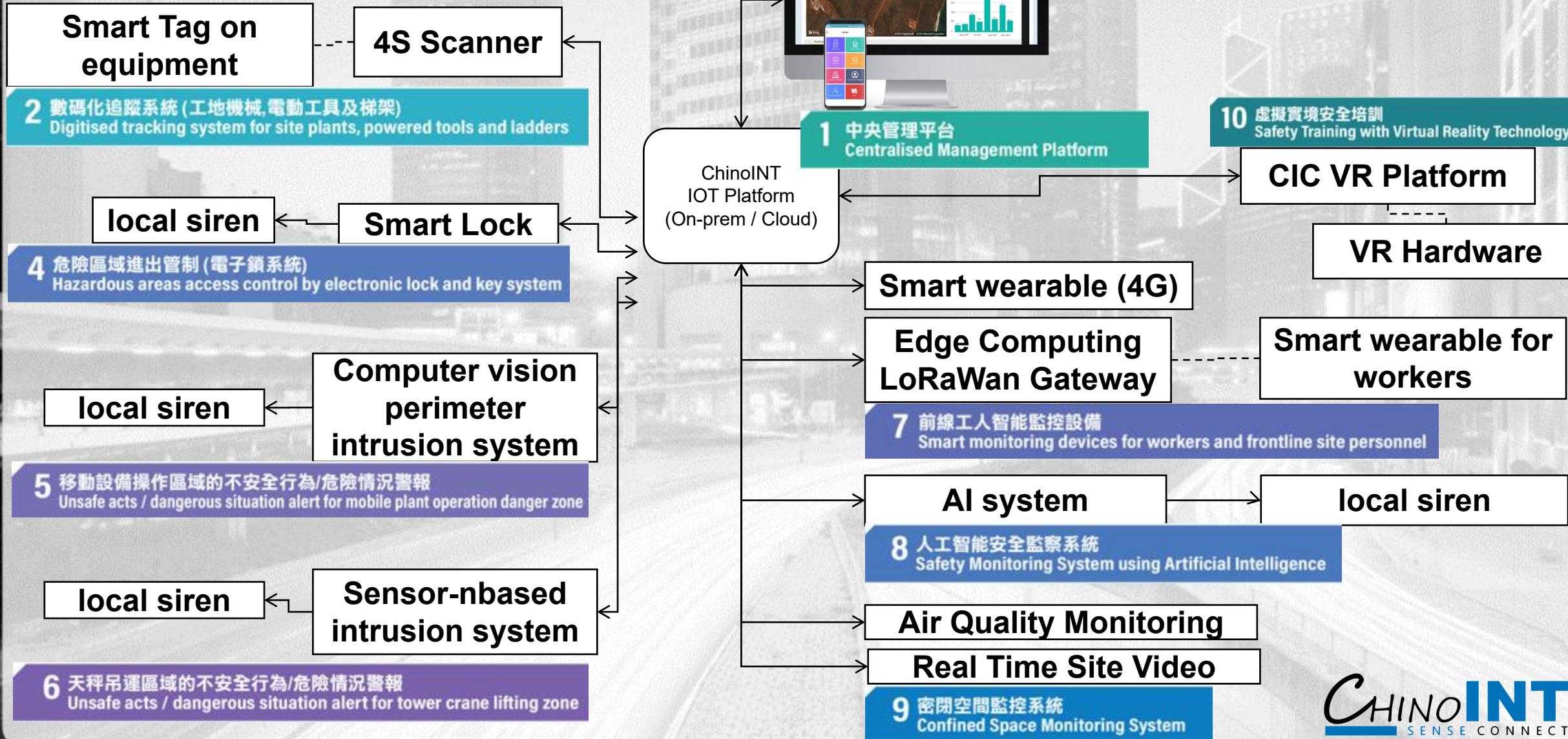
SSSS - 5G AI Safety Monitoring



- Real time streaming
- APP Notification
- Evidence with photo



System Overview



CIC Pre-Approved Solutions

PA-722

AI construction site monitoring Box



- accuracy >95%
- upto 32 computer vision modules
- slim design
- all-in-one
- simple installation



Nga Ying Decoration Ltd
Por Mee Factory Building

PA-725

Vehicle Collision Avoidance System



- accuracy \leq 10cm
- detection range 0.1 to 100m
- easy installation
- local + APP notification



PA-698 (Pending)

Confined Space Management System



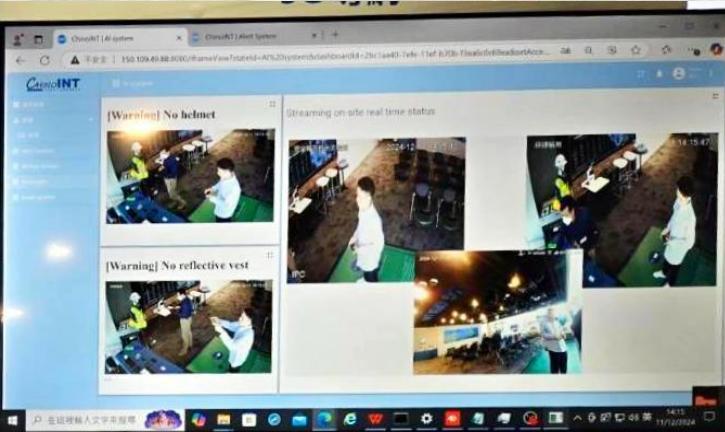
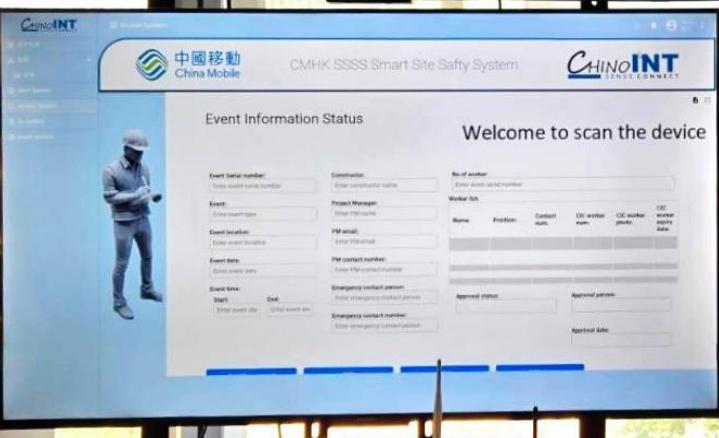
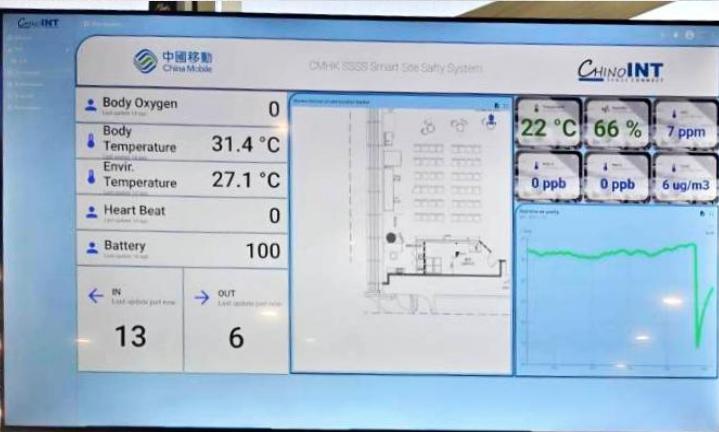
- helmet detection (non-video)
- prolonged stay detection
- real time location
- contractor attendance system



SSSS - ChunWo CMP & Maintenance Project

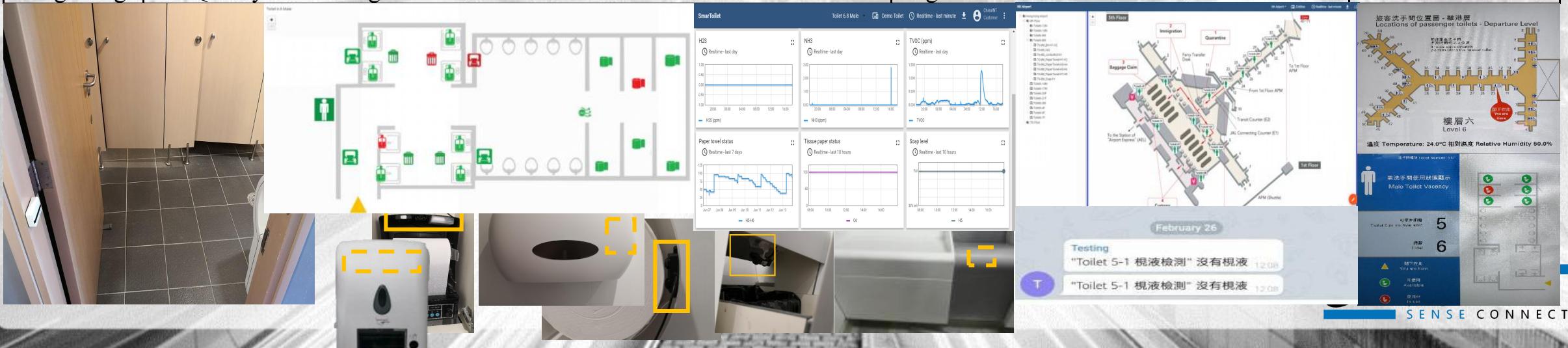


ChinoINT X CMHK: SSSS with 5G Open Lab @ HKSTP



Reference - Smart Toilet & Air Quality

Region	Name	End user	Year of Completion
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2022
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2022
Hong Kong	Smart Toilet - LoRaWan	Hong Kong International Airport	2022
Hong Kong	Smart Facility Management - LoRaWan @ M+	ASD	2021
Hong Kong	Smart Facility Management - LoRaWan	Kadoorie Estates Limited	2020-2023
Hong Kong	Smart Toilet	Poly U	2022
Hong Kong	Smart Chiller Plant - Yau Ma Tei Public Cargo smart switchboard	EMSD	2022
Hong Kong	Smart Chiller Plant - Po Ning Road Clinic Smart Switchroom	EMSD	2022
Hong Kong	Smart Chiller Plant - Hong Kong Heritage Museum	EMSD	2023
Hong Kong	Smart Chiller Plant - Digitalisation of switchrooms at Lockhart Road MSB	EMSD	2023
Hong Kong	Smart Toilet	Advance Manufacturing Center - HKSTP	2023
Hong Kong	Smart Chiller Plant Monitoring	Poly U	2023
Hong Kong	Air Quality Monitoring	Legislation Council	2025



All-in-One IAQ sensor:
°C, Humidity, H2S, NH3, TVOC, PM2.5,
with HCHO, CO2, CO, O2, stc as options

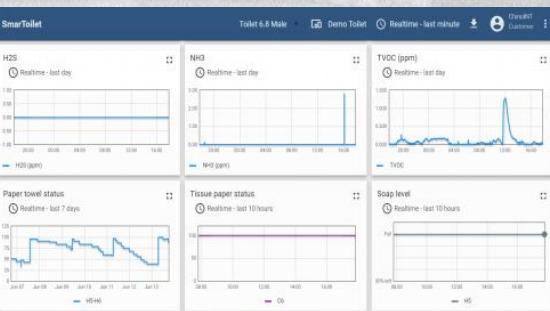
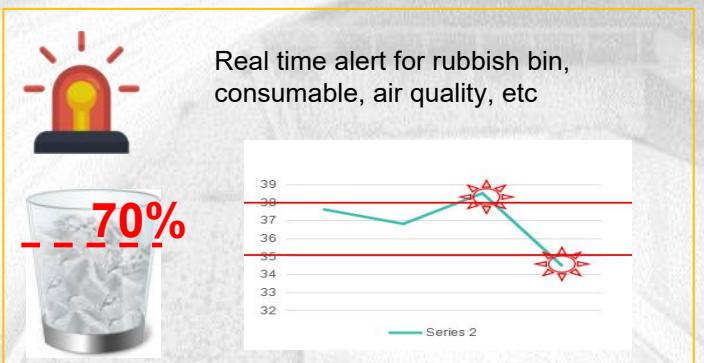
Connection :
RS485/LoRaWan



Tailor-made, fully integrated, implicit design
LoRaWan sensors
running on battery with long battery life
for consumable status detection



HKIA Smart Toilet over LoRaWan



Benefits

- Latest long range low power wireless technology
- Tailor-made, fully integrated design to fit into existing equipment style
- Real time status for consumables, air quality
- On-demand cleaning to save > 60% of resource
- Clear dashboard for management team
- Real time notification for operation team
- Performance data for maintenance team
- Clean and neat on-site dashboard for airport users



App message
notification

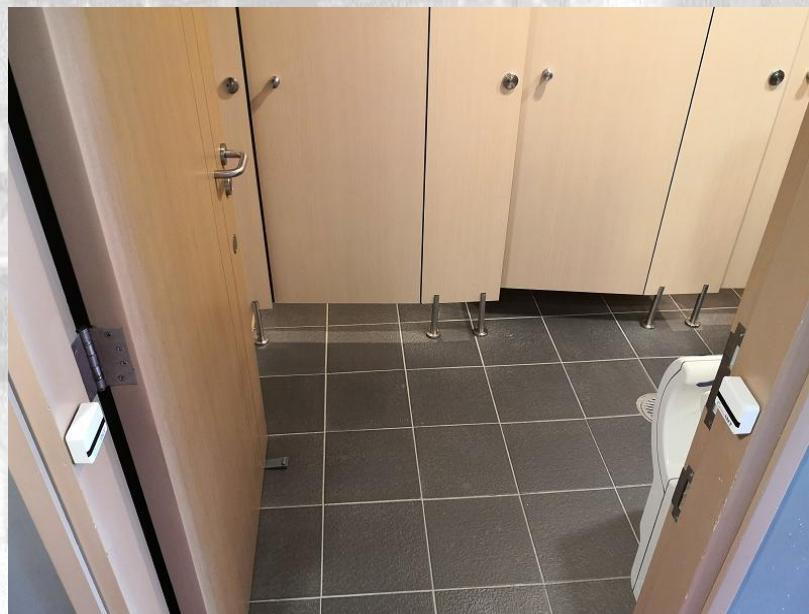
CHINOINT
SENSE CONNECT

PolyU Smart Toilet



System Component:

- IOT Edge Computing Gateway
- Odor gas sensors
- People Counting solution
- RFID auto attendance system



Smart Toilet



Reference - Real Time Tracking & Counting

Region	Name	End user	Year of Completion
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2020
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2019
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2021
Hong Kong	SSSS - Confined Space management	CLP - Black Point Power Plant	2022
Hong Kong	SSSS - Confined Space management	CLP - Castle Peak Power Plant	2022
Hong Kong	SSSS - Turbine Work Safety Video Analytic	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - Personnel management for containers during COVID	CLP - Castle Peak Power Plant	2021
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Hong Kong	SSSS - 5G enabled Smart Construction Site Monitoring	Por Mee Factory Building	2023
Hong Kong	SSSS - UWB-enabled Collision Avoidance System for Vehicle	SUEZ - IWTS	2021
Hong Kong	Smart Facility Management - LoRaWan	Kadoorie Estates Limited	2020-2023
Macau	Smart Elderly Center - Zigbee	Vila Medalena Macau	2019
Hong Kong	Smart Toilet	Poly U	2022
Hong Kong	Smart Visitor Management - People Counting	Hong Kong U	2020
Hong Kong	Smart Toilet	Advance Manufacturing Center - HKSTP	2022
Hong Kong	Smart Warehouse Monitoring and Staff Tracking	DSV	2024

Warehouse and Walk-in Freezer Monitoring - DSV

For this client, they operate walk-in freezer and warehouse. Staff have to work in a cold and enclosed spaces all the time. To keep their staff safe and with ZERO incidence, they invited ChinoINT to design a RTLS for that is suitable for their entire warehouse building.

The most important features are the real time location tracking, and environment monitoring.

DSV Yuen Sing (Fanling) Logistics Centre

Building Diagram: Shows the building structure with the G/F - Low Block and G/F - High Block. The 4/F is labeled as an Office, and the 3/F, 2/F, and 1/F are labeled as Frozen Storage (-18°C). The 1/F is also labeled as Chill Storage (0 - 4°C) and Frozen Storage (-18°C).

Staff Monitoring Interface: A screenshot of the ChinoINT Sense Connect software interface showing staff location and status. Vincent is in Zone 2 (17 min dwell time, Normal status). Gregory is in Zone 4 (53 min dwell time, Normal status).

Environmental Monitoring Data: Real-time temperature graphs for the 3/F Frozen area, 3/F Chill area, and 3/F air-con area. The graphs show temperature trends over the last 5 hours.

Physical Monitoring Equipment: Photos of ChinoINT Sense Connect access points and environmental sensors installed in the warehouse.

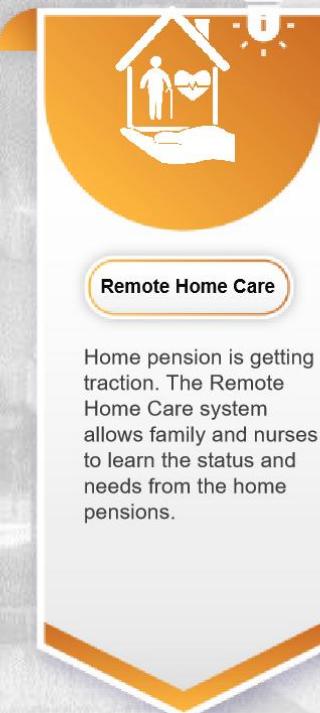
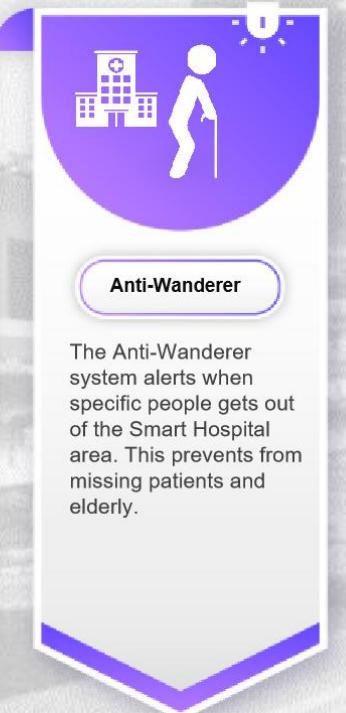
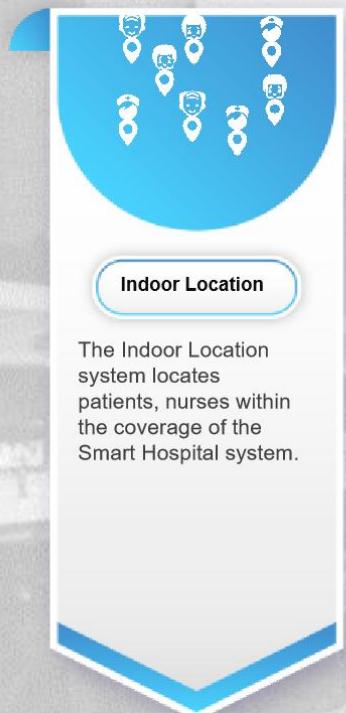
Warehouse Layout: A floor plan of the warehouse showing staff locations (red dots), storage areas (shaded boxes), and specific monitoring zones (labeled 1, 2, 3, and 4). Icons indicate Inbound Goods, Track Storage, Order Picking, and Outbound Goods flow.

Monitoring Summary:

- Zone 1:** Temperature: -18°C, Status: Normal
- Zone 2:** Temperature: -18°C, Status: Normal
- Zone 3:** Temperature: -17.5°C, Status: Normal

ChinoINT SENSE CONNECT

Smart Elderly Center - Macau



Reference

ChinoINT RFID Family has been deployed successfully. Our RFID devices have been integrated into the Smart Worksite solution invented by ChinoINT at a power plant in Hong Kong, to raise the worksite safety to the next level.



Reference - LoRaWan

Region	Name	End user	Year of Completion
Hong Kong	Smart Metering - LoRaWan	SUEZ - IWTS	2021
Hong Kong	Smart Toilet - LoRaWan	Hong Kong International Airport	2022
Hong Kong	Smart Toilet - LoRaWan	Poly University	2021
Hong Kong	Smart Facility Management - LoRaWan @ M+	ASD	2021
Hong Kong	Smart Facility Management - LoRaWan	Kadoorie Estates Limited	2020-2023
Hong Kong	Smart Metering	Poly U	2020
Hong Kong	Smart Facility Management - Water leakage Detection	Queensway Government Office	2022
Hong Kong	Smart Visitor Management - People Counting	Hong Kong U	2020
Hong Kong	Smart Facility Management Notification Platform	Queensway Government Office	2023
Hong Kong	Smart Chiller Plant Monitoring	EMSD	2022
Hong Kong	Smart Chiller Plant Monitoring	EMSD	2023
Hong Kong	Smart Chiller Plant Monitoring	Poly U	2023

Reference - Video Analytic

Region	Name	End user	Year of Completion
Hong Kong	SSSS - Turbine Work Safety Video Analytic	CLP - Black Point Power Plant	2021
Hong Kong	SSSS - 5G enabled Smart Construction Site Monitoring	Nga Ying Decoration Ltd	2023
Hong Kong	SSSS - 5G enabled Smart Construction Site Monitoring	Por Mee Factory Building	2023
Hong Kong	Facial Recognition Terminal with fever detection	Siemens Hong Kong	2020





For more information,
please feel free to contact us:

sales@chinoint.com