



blueiot

Bluetooth AOA High Precision Locating System

BlueIOT (Beijing) Technology Co., Ltd

About Us

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BlueIOT (Beijing) Technology Co., Ltd is a world leading RTLS (Real-time Location System) provider committed to developing high-precision locating products and solutions for indoor application scenarios like healthcare, logistics & warehouse, manufacturing, smart retail, smart buildings, etc.

BlueIOT locating system applies cutting-edge **Bluetooth AoA** (Angle of Arrival) technology and brings its accuracy level down to **0.1m**, which is 10 times higher than traditional Bluetooth technology. With patented locating gateways, its locating system is compatible with all Bluetooth 4.0 or above tags and supports the high-precision locating service for both IoT tags and LBS phones. The system also stands out for its features of high capacity, low energy, low cost and small size.

Founded in 2020 by Tsingoal, an 8-year UWB-based RTLS leader, BlueIOT is headquartered in Beijing, China with three more technical centers. We boast a team of over 200 staff, more than half of which come from Cornell University, Tsinghua University, the University of Warwick, the University of Liverpool and other prestigious universities and make up our R&D department, striving to improve our products along the way.

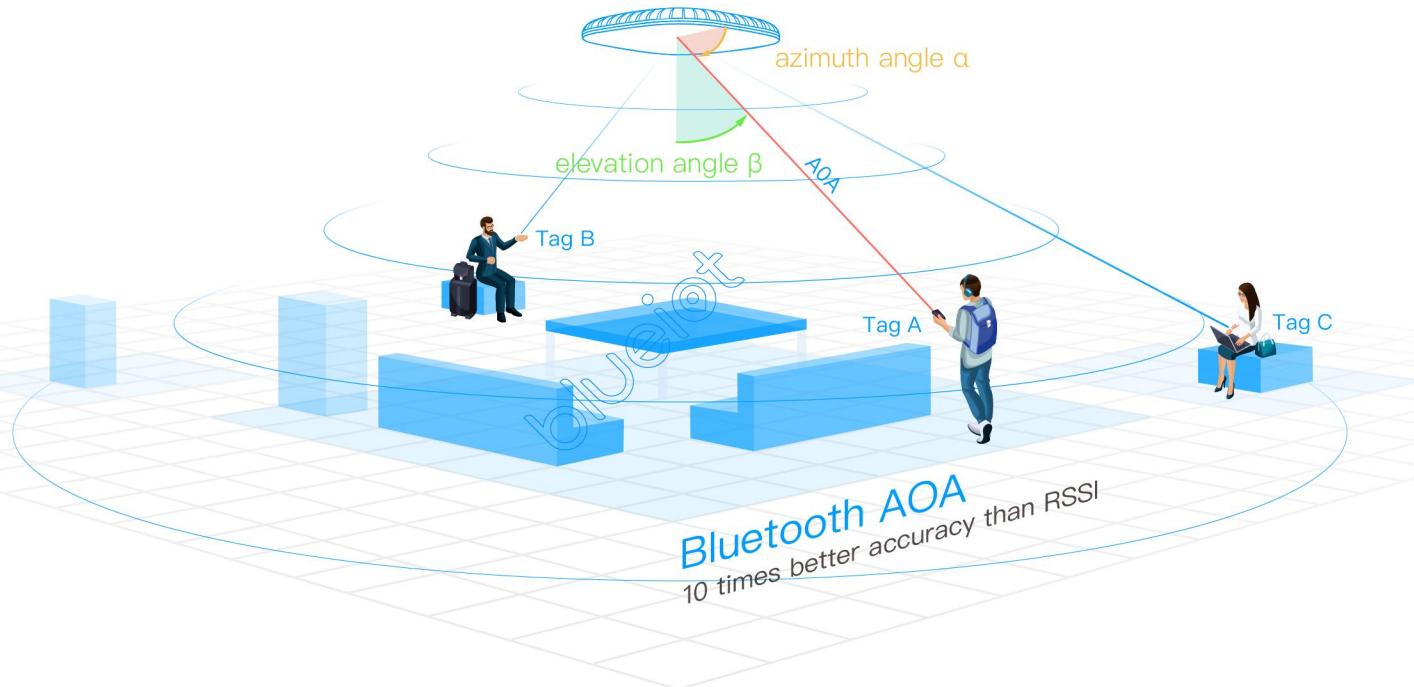
With our open positioning platform, we are expecting to help the world's ten billion Bluetooth terminals to enjoy more accurate location experience and greatly empower all industries.

- Bluetooth SIG member
- The world's 2nd largest BLE AoA provider
- 5G AIA Industry Member
- A pioneer and advocate in promoting BLE AoA plus 5G



Technology Overview

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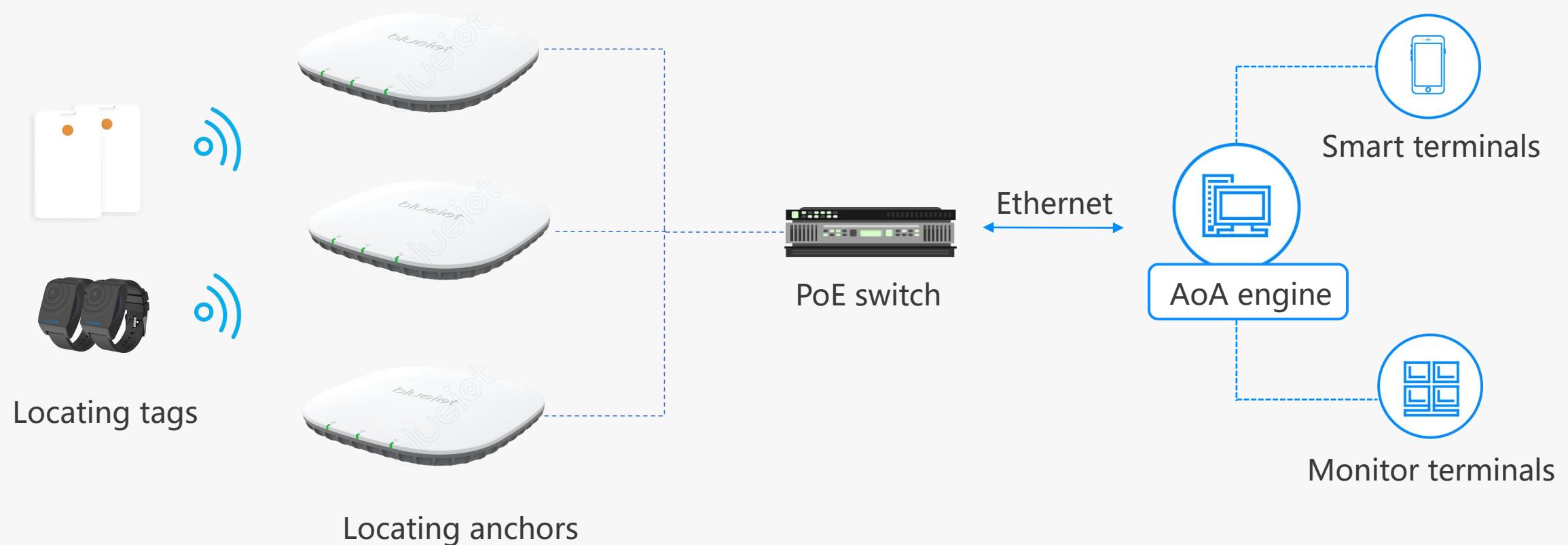


Typical accuracy: 0.1 ~ 0.5m

- Locating with one anchor and two angles
- Accuracy level down to 10cm
- Supports Bluetooth 5.1
- Compatible with BLE 4.0 tags or above
- Compatible with mobile phones

Bluetooth AoA Locating System

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Products

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BlueIOT offers a full set of RTLS products including AoA anchors of high capacity, wearable and light-weight AoA tags, AoA engine, and abundant application software for tracking people, vehicles and assets.

Software



Locating anchor

BA3000-t

Bluetooth Location Anchor



Data interface: Standard Ethernet

Power interface: POE

Working temperature: -20 ~ 60°C

Accuracy: 0.1m ~ 0.5m

Locating tag

BT1000-w

Wristband | Bluetooth Location Tag



Battery type: Rechargeable Li

Working hours: charge every 4 ~ 6 months

Working temperature: -20 ~ 70°C

Waterproof rating: IP65

Size: 54.5 * 40 * 16.5mm

- Buzzer
- Button alarm
- Vibrator
- Swiping RFID

BT1000-g

Badge | Bluetooth Location Tag



Battery type: Rechargeable Li

Working hours: charge every 4 ~ 6 months

Working temperature: -20 ~ 70°C

Working humidity: 10% ~ 90% no condensation

Size: 85 * 54 * 6mm

- Buzzer
- Button alarm
- Vibrator
- Swiping RFID

Open Ecosystem for Partner Tags



Patch Tag
BE201-zb

Light & compact
Replaceable button battery



MR Glasses Tag
BE401-xr

Interactions of Mix Reality HD
3D, gestures and voice



Fitness Wristband
BE101-zw

Color screen
Heart rate monitor
20 days' standby time



Temperature and Humidity Tag
BE301-cg

Sensors with industrial-level precision and for data upload



Accurate

Positioning accuracy down to 0.1-0.5m



Long-lasting

Lower power consumption battery lasting up to 5 years



Small

Various tags as small as a coin



Low-cost

The lowest total cost of ownership in the industry



High Concurrence

One anchor supports 500 tags (1Hz)



Open Ecology

Compatible with Bluetooth terminals, accurate LBS for smartphone

Solutions

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Transportation



Retail



Healthcare



Museum

Solutions

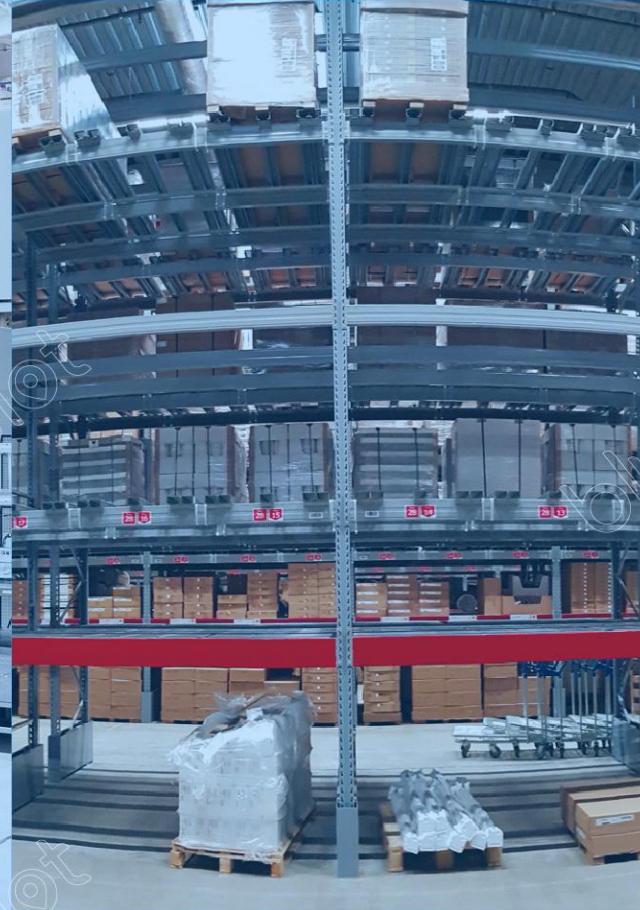
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Public Security



Manufacturing



Warehouse
&Logistics



Smart Building



Smart Healthcare

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Smart Healthcare

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Accurate indoor positioning technology can be applied in hospitals for people and asset tracking and lead to higher efficiency, better service, and lower cost.



Patient Tracking



Staff Dispatch



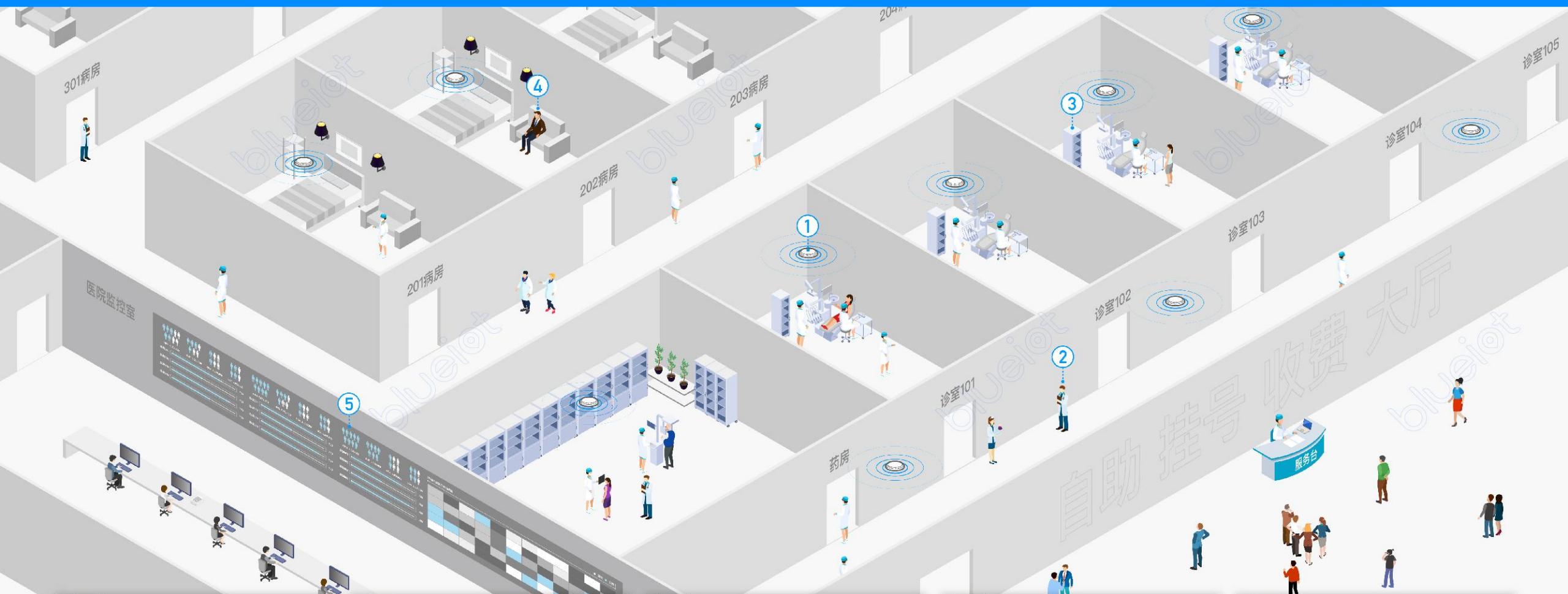
Smart Navigation



Asset Tracking

Solution Overview

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1



Indoor AoA Locating Anchor

2



Locating Anchor | Badge

3



Locating Tag | Asset

4



Locating Tag | Wristband

5

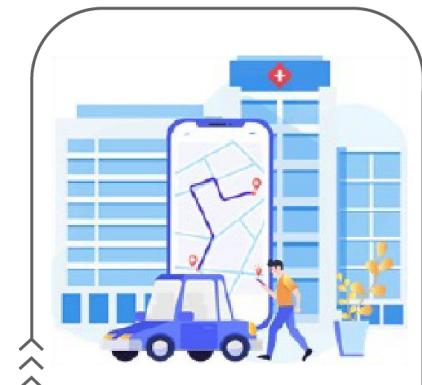


Software | Monitor

Applications | Smart Navigation

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Blueiot RTLS solutions effectively reduce the time spent in finding the way.



Before Arrival

- AoA plus GPS
- Find the shortest or less congested way to the hospital



Parking Lot

- Location map
- Display available space
- Car finding



Smart Triage

- Visualized map
- Route optimization



Realtime Tracking

- 2D/3D mode
- Realtime directions



Location Sharing

- Patient-visitor, visitor-visitor sharing
- Never lose track



Emergency

- One click for help
- Be quickly found

Devices:

- Mobile apps
- Locating badge
- Compatible with RFID

Features:

- 📍 Accuracy
- 🧭 Route planning
- 💻 Fully covered applications
- 👁 User-friendly

Applications | Patient Tracking

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Blueiot RTLS solutions provide accurate patient tracking service to save labor and cut down cost.



Information Acquisition

- Vital sign monitor
- Alarm of abnormal data



Emergency

- Realtime locating
- Speedy rescue



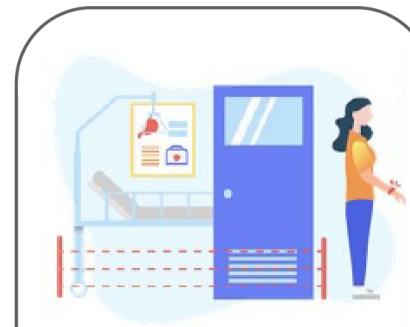
Time Management

- Recording of entry/exit/duration



Special Care

- Locate elderly patients
- Track patients with mental disorder



Regional Management

- Electronic fencing
- Trajectory recording
- Off-tracking alarm



Location Data Analysis

- Optimize first-aid process
- Behavioral analysis
- Predict abnormal conditions

Devices:

- Locating wristband
- Skin-friendly
- Long lasting battery
- Anti-humidity
- Heartrate monitor
- Alarm button

Features:

- IoT device
- Realtime monitoring of individuals
- Convenient
- Multifunctional

Applications | Baby Protection

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Blueiot RTLS solutions help locate, identify and protect babies with a high accuracy and effectiveness.



Identification

- Mother-baby pairing
- Prevent mistaken carry-away



Realtime locating

- Visualized location map
- Locate a baby accurately



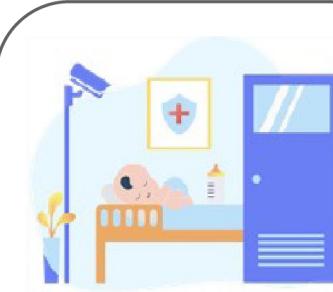
Trajectory Monitoring

- Trajectory recording & playback



Electronic Fencing

- Out-of-bound alarm
- Anti-theft alarm



Alarm System

- Alarm for unauthorized take-off, of the tag, departure, and low battery.



Camera Linkage

- Integrated camera system
- Real-scene monitor

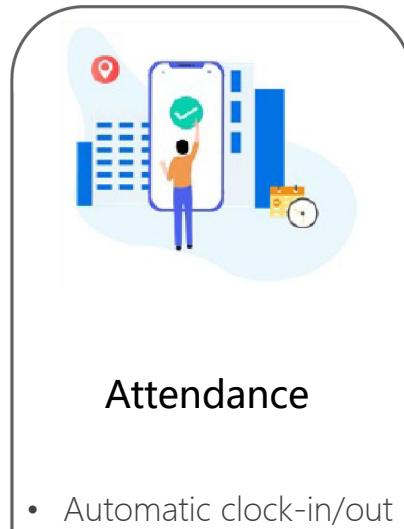
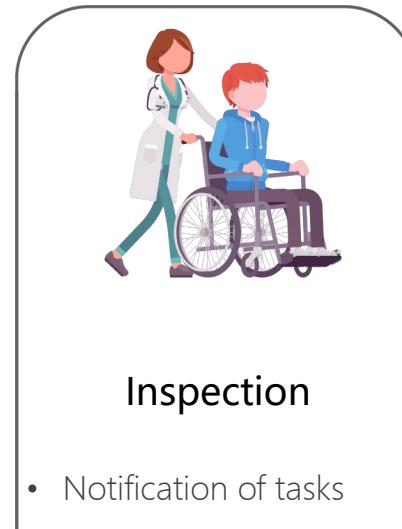
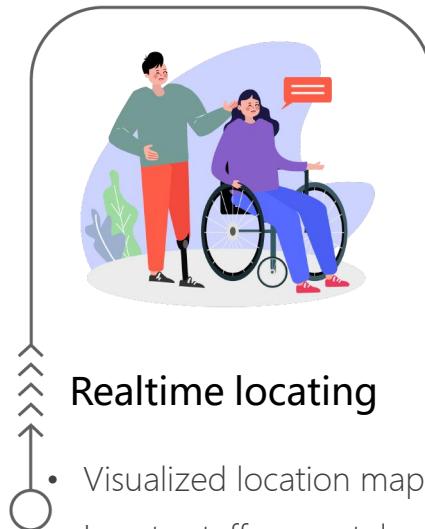
Devices: • Anti-tamper wristband • Skin-friendly • Alarm button • Waterproof & dustproof

Features: Realtime monitoring of individuals IoT device Convenient Accurate

Applications | Staff Management

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Blueiot RTLS solutions can be applied to improve staff management and therefore upgrade service for patients and visitors.



Devices: • Mobile Apps • Badge tag • Compatible with RFID and used for access control or payment

Features: IoT device Realtime monitoring of individuals Convenient User-friendly

Applications | Asset Tracking

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BlueIOT offers all-round asset management solutions for locating assets, making an inventory, and data analysis.



Realtime Monitoring

- Accurate locating in each floor, each office



Quick Search

- Realtime locating
- Route planning



Data Analysis

- Statistics of utilization, performance & vacancy
- Visualized interface



Stock Inquiry

- Make an inventory
- Maintenance records



Trajectory Recording

- Playback & analysis



Camera Linkage

- 360° spherical view
- HD video

Devices: • Asset tag: long standby time & adaptive to harsh environment • AI robot: 360° visual coverage & uniform dispatching

Features: IoT device

Realtime monitoring of individuals

Convenient

Easy to maintain



Smart hospital

- Connect space, location, facilities, events & environment

Open platform

- Open API for multiple systems & devices

Big data

- Visualized interface
- Monitor overall situation

User experience

- Offer professional and immediate treatment
- Upgrade navigation and consulting service

Use Case

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General Hospitals



Union Shenzhen Hospital (Nanshan Hospital)



- Huazhong University of Science and Technology Union Shenzhen Hospital (Nanshan Hospital) is located in Nanshan District, Shenzhen, adjacent to the "Qianhai-Shekou Free Trade Zone". It is a Grade-Three Level-A comprehensive hospital in Shenzhen. The hospital covers an area of 86,800 square meters, with a construction area of 129,900 square meters, with more than 1,300 open beds.



Accurate



Long-lasting



Low-cost



Small



High Concurrence



Open Ecology

Use Case

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General Hospitals



- Established in 1939, the hospital covers a construction area of 734,000 square meters with 6,100 beds and 3.425 million outpatient visits. There are 9 national key clinical specialties and 28 provincial leading medical disciplines. As an early member of Grade-Three Level-A comprehensive hospitals, the hospital is also a member of the China-CEEC Hospital Cooperation Alliance and listed as “Top 100 Hospitals” in the country.



Accurate



Long-lasting



Low-cost



Small



High Concurrence

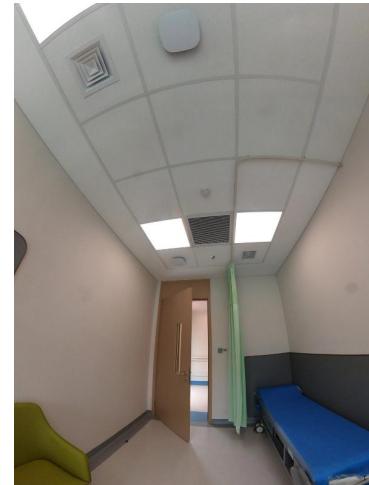


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General Hospitals



- Heyou International Hospital is a non-profit general hospital that is planned, designed and constructed in accordance with the requirements for Grade-Three Level-A comprehensive hospitals and the highest standards of the international quality certification system. With a total area of 580,000 square meters, the hospital has six major diagnosis and treatment centers, implementing a multidisciplinary diagnosis and treatment (MDT) model. There are 1,500 beds and over 30% green space.



Accurate



Long-lasting



Low-cost



Small



High Concurrence



Open Ecology

Emergency Departments



- Hangzhou Ninth People's Hospital is a Grade-Two Level-A comprehensive hospital, but designed and constructed according to the standard of a Grade-Three Level A hospital. Its construction area is 98,000 square meters and there are 600 beds. The hospital has won numerous awards in nationwide competitions and the total number of its beds is expected to exceed 1300 following a new expansion plan.



Accurate



Long-lasting



Low-cost



Small



High Concurrence



Open Ecology

Nursing Homes

Shan Qi Community

- This project is located in Foshan, Guangdong Province, and around 250 million yuan has been invested. The nursing home covers 60,000 square and there are 850 beds for the elderly, providing daily care, medical treatment, and services like rehabilitation, learning, and entertainment.



Accurate



Long-lasting



Low-cost



Small



High Concurrence



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THANKS

For more information, please e-mail to global@blueiot.com