

Global Indoor LBS Solution Leader

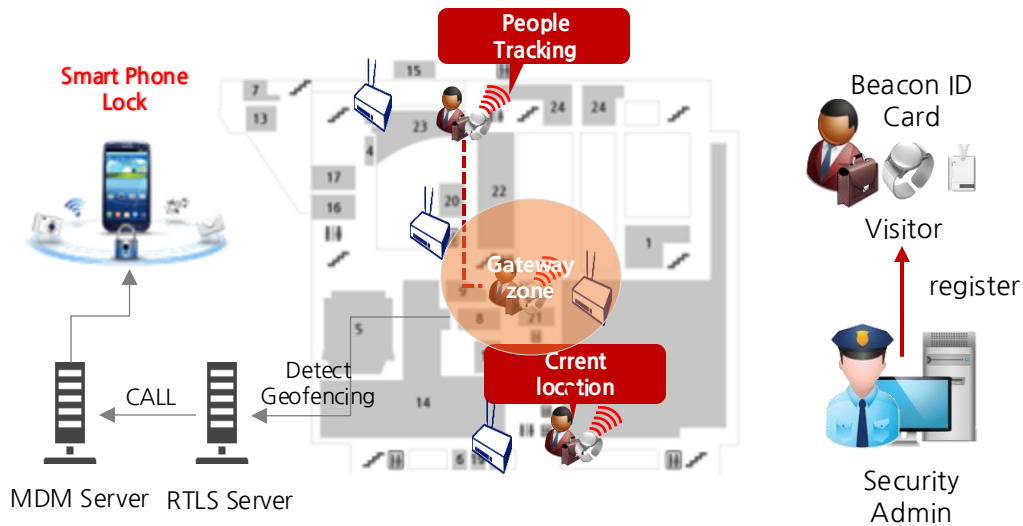
Amore Pacific Details Case Study

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Summary

Solution & Deployment

- The 2-week PoC was successfully performed with 22 beacon scanners and 100 beacon tags.
- **IndoorPlus+ for RTLS Solution** & 3rd party **MDM (Mobile Device Management)** integration
- Whenever detecting any employee ID card (that emits beacon signals), it delegates MDM API server to lock **or unlock** the matched SmartPhone with employee number. (Employee ID Card or Visitor ID Card)



The blueprint to deploy the beacon scanner in PoC

Utilizing the geofence feature of IndoorPlus+ RTLS, it detects the gateway zone. Whenever people enters in, the MDM server integration will be activated and SmartPhone will be locked.

Results

- The success ratio to lock SmartPhone with real field testing shows an impressive **99,99% exact detection rate.**
- After 2 weeks successful PoC, **the full deployment commercial contract signed in March**

Background

Challenges

- BYOD (Bring Your Own Device) – non corporate devices are brought by employees, visitors or 3rd party vendor employees
- These mobile devices have some security holes such as camera capturing, data storage and unauthorized apps.
- MDM (Mobile Device Management) was already deployed in 2013
- However, it doesn't have some automatic lock-up control systems, so MDM doesn't work on a certain devices.

Security Hole



- Too many employees around 8:00 AM.



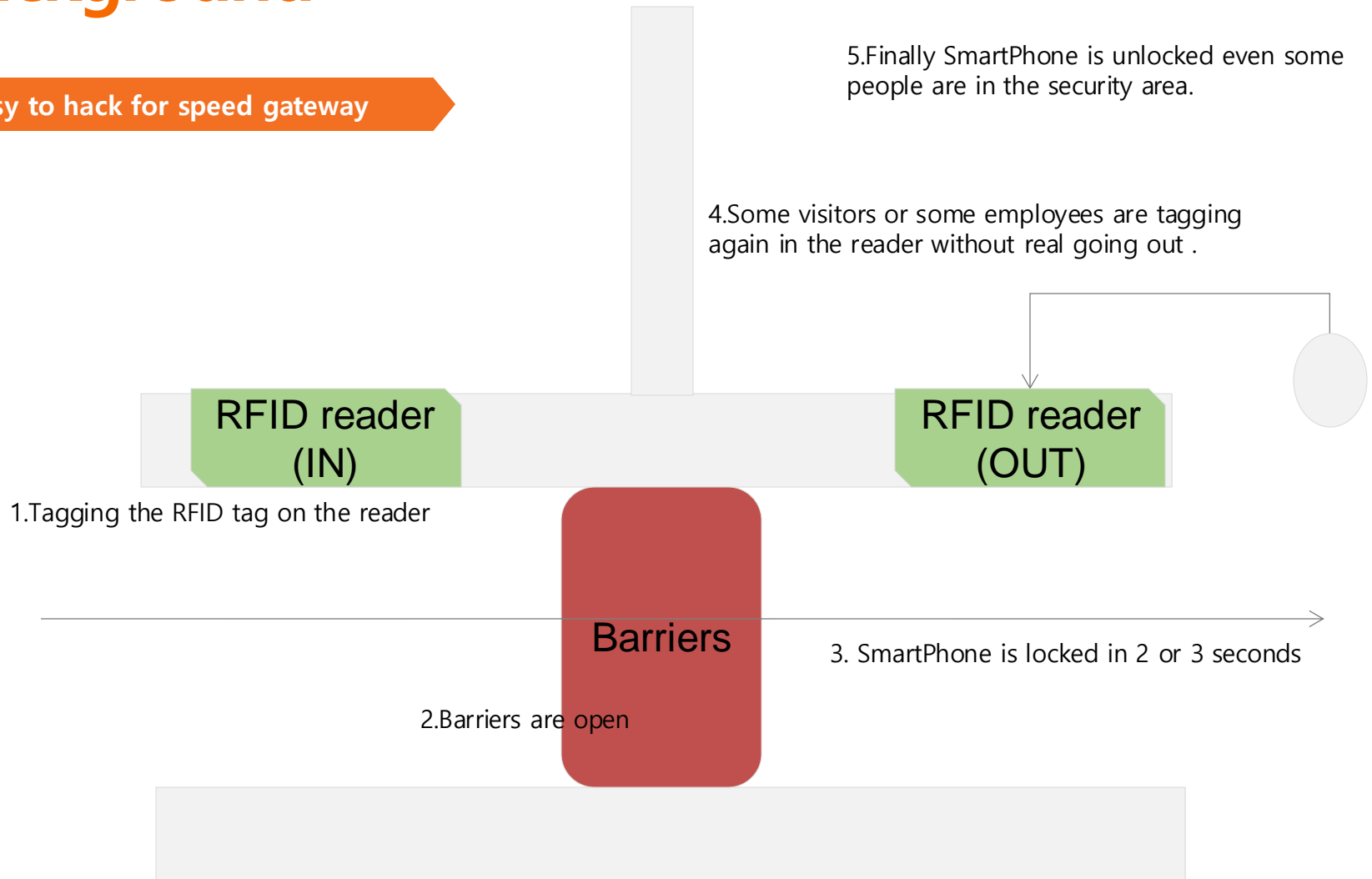
- Gateway control is impossible



- Speed Gateway with MDM integration works, but in the rush hours, to meet the entering the factory, it releases its entering barrier.
- For this reason, the factory employee's smartphone are not locked up in many cases.
- Office workers speed gateway is better, but sometimes, these speed gateway with MDM is easily hacked

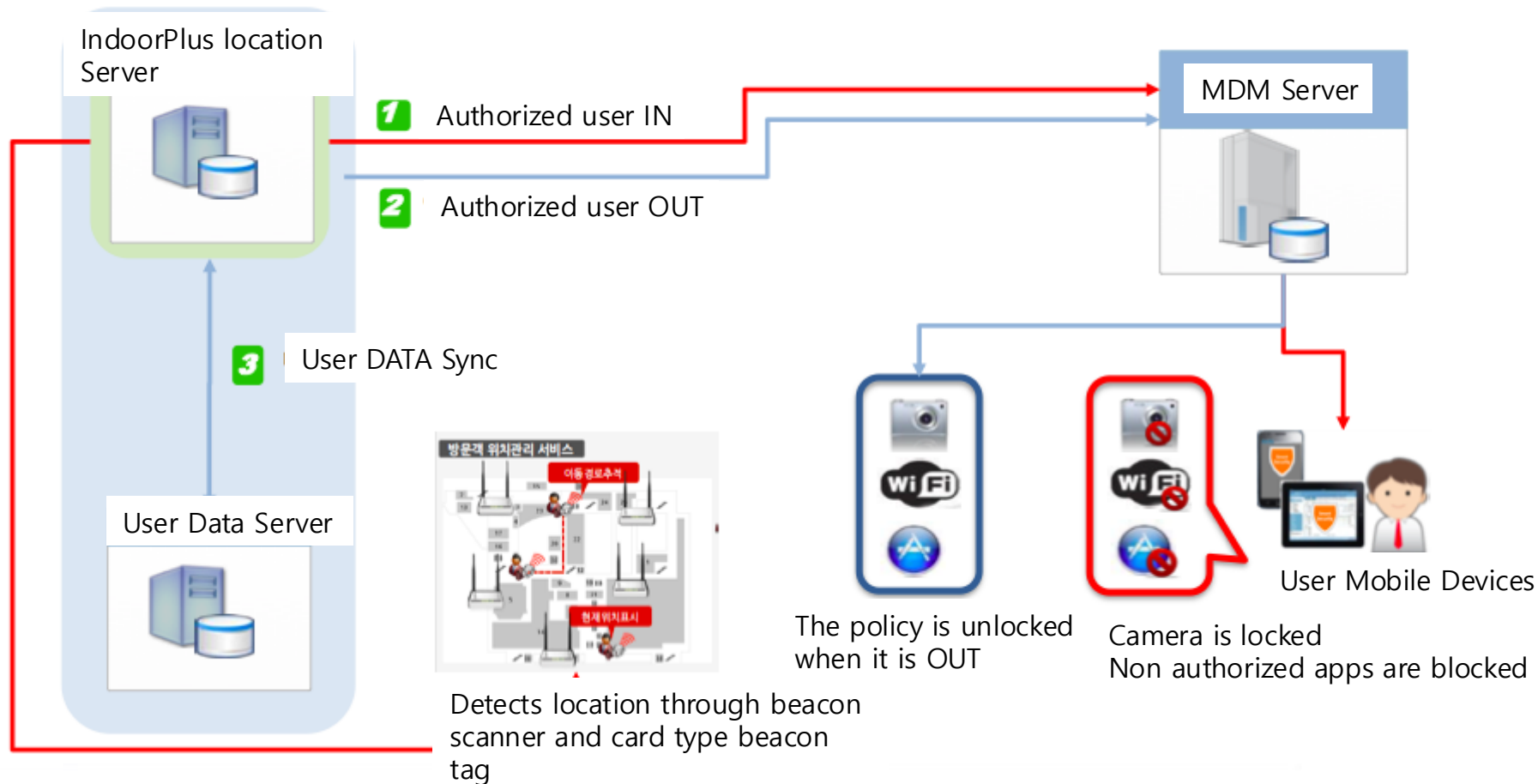
Background

Easy to hack for speed gateway



MDM with RTLS location solution

Customer & Objective



Monitoring Dashboard

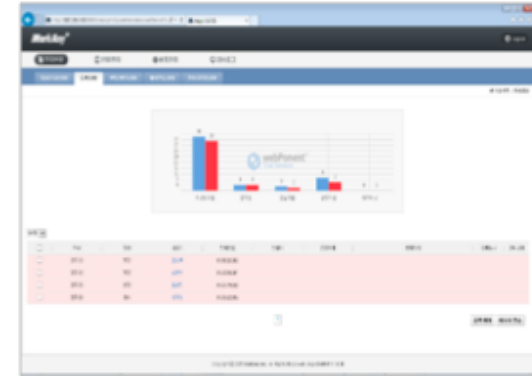
Dashboard is based on on 3rd party solution



Summary Dashboard



IN/OUT Status for people



Device lock status



Rooting Status



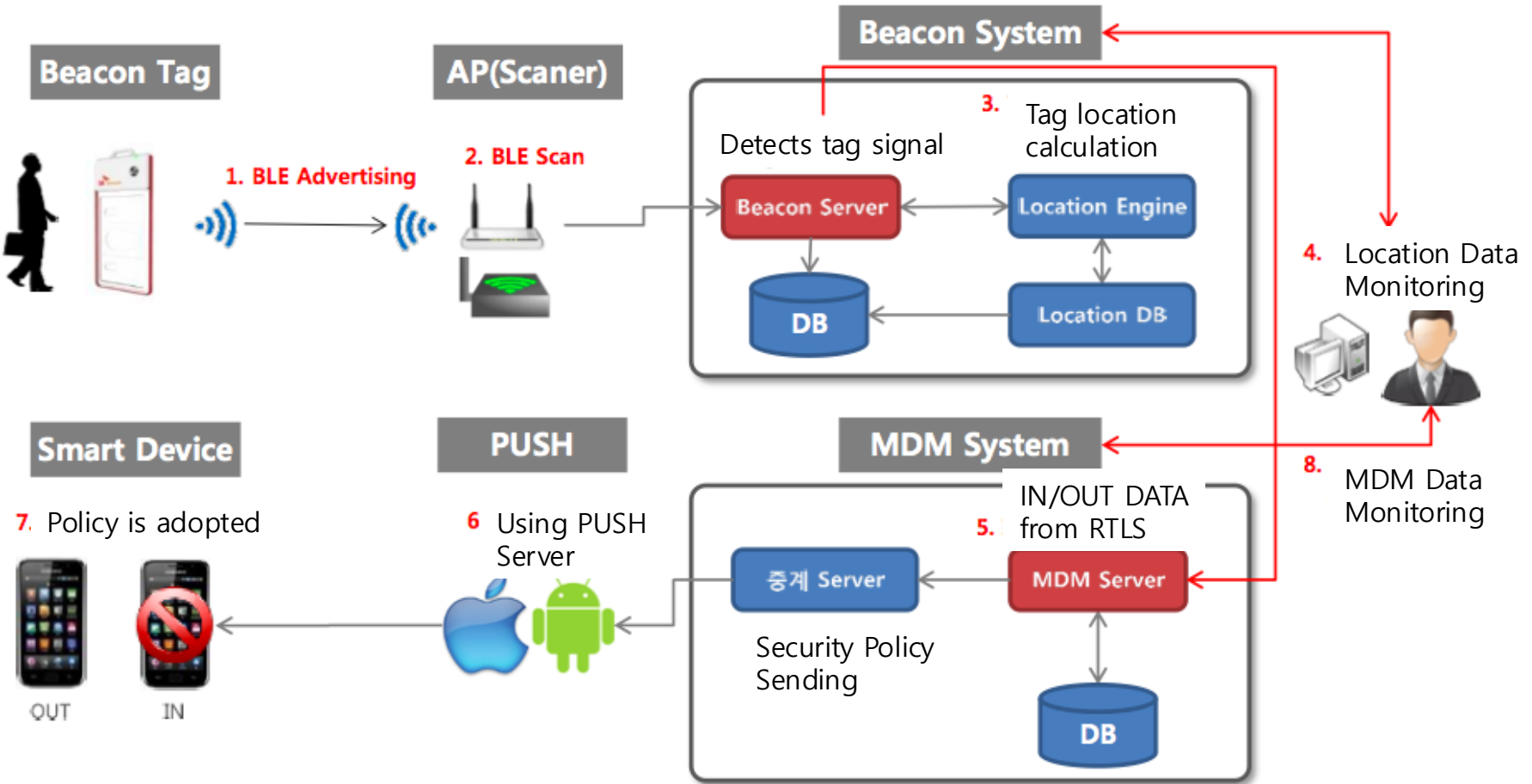
MDM Agent monitoring



Device list per people

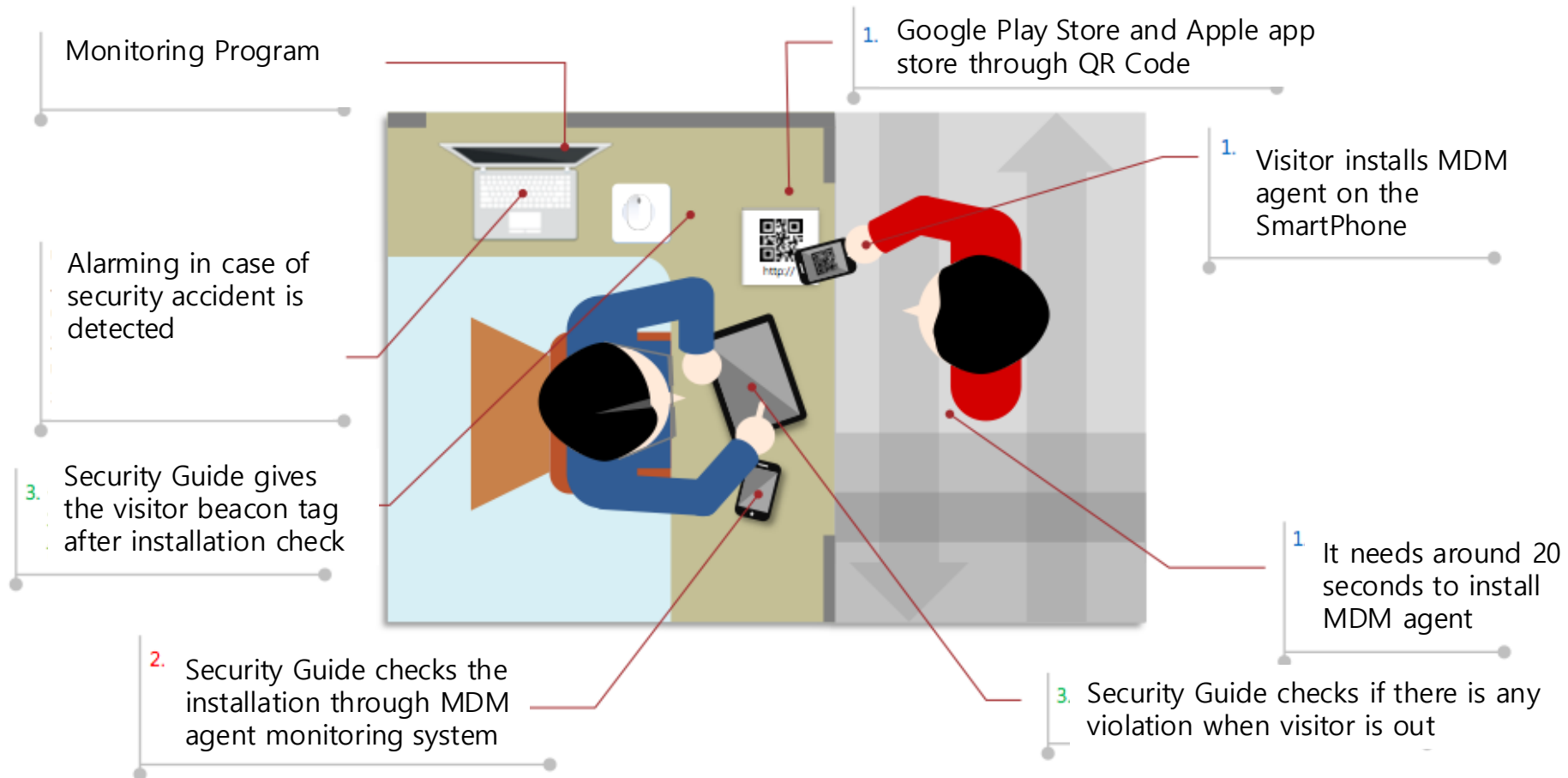
Detailed Scenario

For the employees



Detail Scenario

Visitor Case



Factory Blue Prints

Scanner Deployment Plan



Scanner Deployment Plan

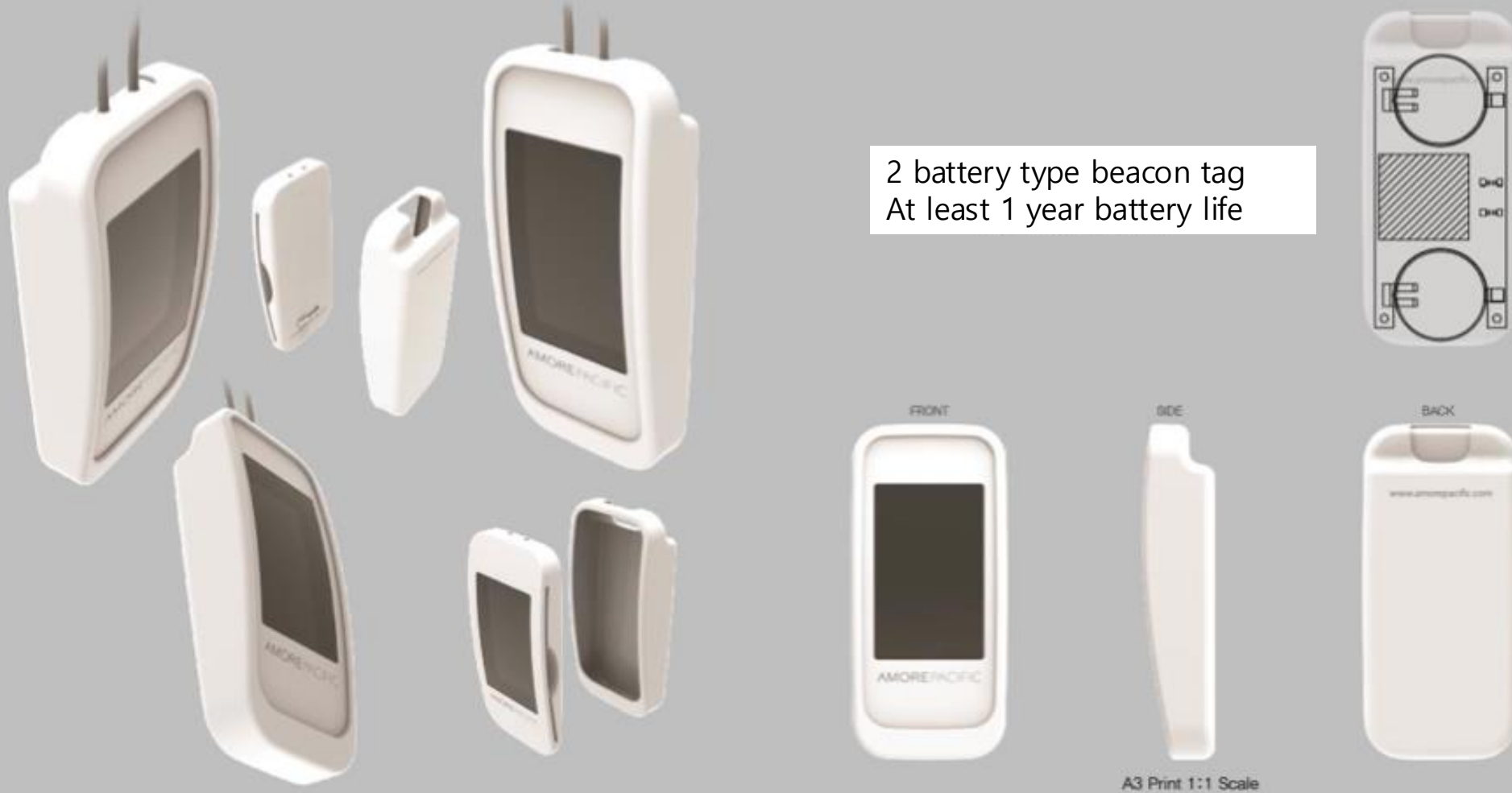
- : IN Scanner
- : OUT Scanner



The zone not unlocked area even though it is out for strict security check

Employee Card with Beacon tag

- *Existing RFID employee card is covered by silicon based beacon
- *Total 2,200 beacon tag is deployed



H/W Design

Beacon Scanner

*Total 83 beacon scanners are deployed

