

THE **STEALTH**



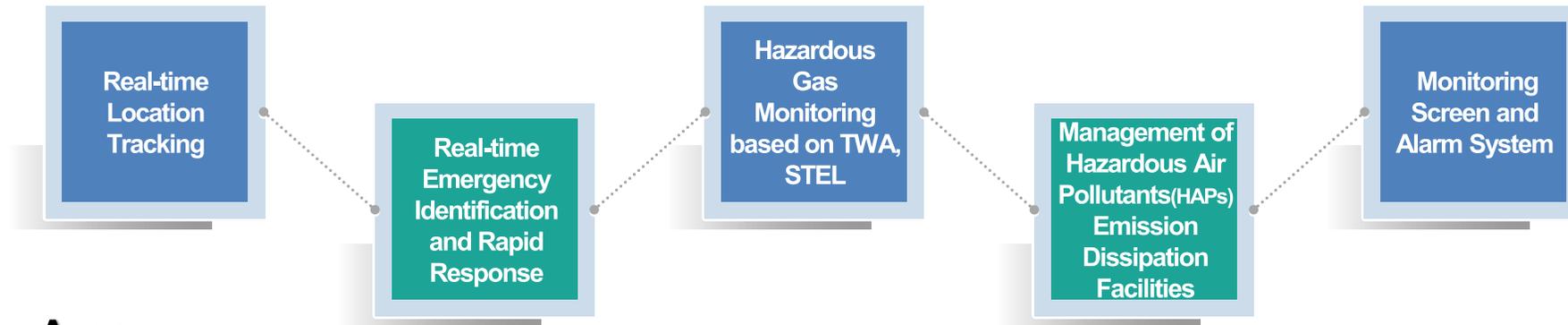
Safety

**Global TSCM Group, Inc.
The Stealth Lab, Inc.**



Create a Smart Work environment that enable on-site safety

with Smart Devices and IoT technologies!



Application Area

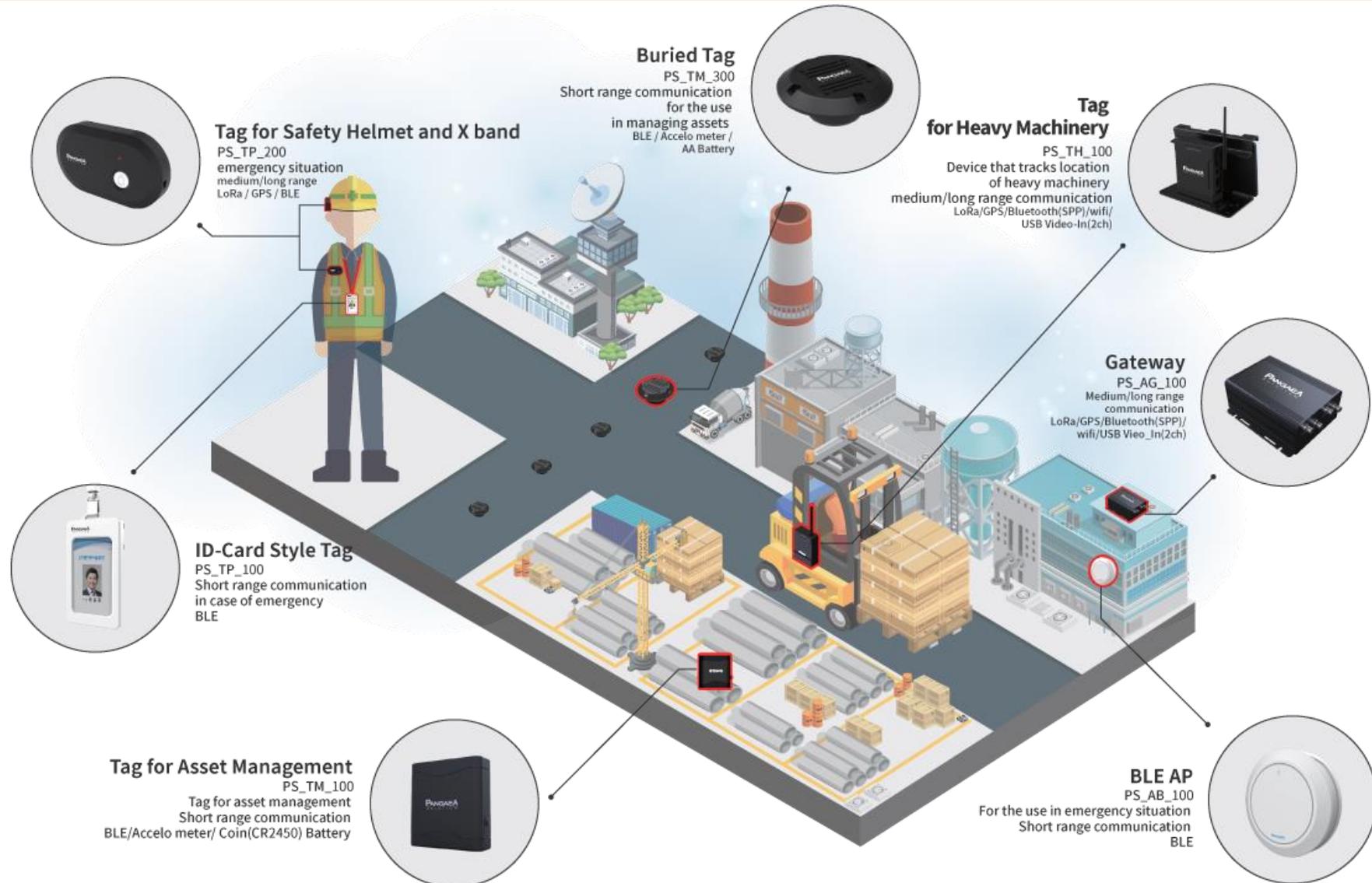
- Facility
- Prison
- Military
- Company
- Factory





The Stealth Safety

II. Products





An Integrated Safety Management Using Real-time Detection and Collected Data

These services are selectable for your application



Emergency Evacuation Drill/Training

Training Scenarios that allow on-site workers to practice emergency evacuation in case of an emergency occur



Workers Close Observation/Scrutiny

A function to prevent accidents by specifying age, a vulnerable time zone, or a danger zone in advance and to observe workers in danger zone more closely



Securing Golden Time

- The main cause of recent accidents in industrial environments is the prolonged recognition time of the accident
- Prevent workers accident by speeding up initial response in event of an accident



Save Budget and Maximize Work Efficiency

Save budget by reducing the number of employees in safety related departments
Maximize work efficiency by replacing safety-managing tasks with a solution



Prevention of Safety Accident

Computerize the existing manual tasks, such as safety work plan and continuous monitoring of gas concentration and proceed with work according to the correct working rules.



Prevention of Hazardous Gas Accidents

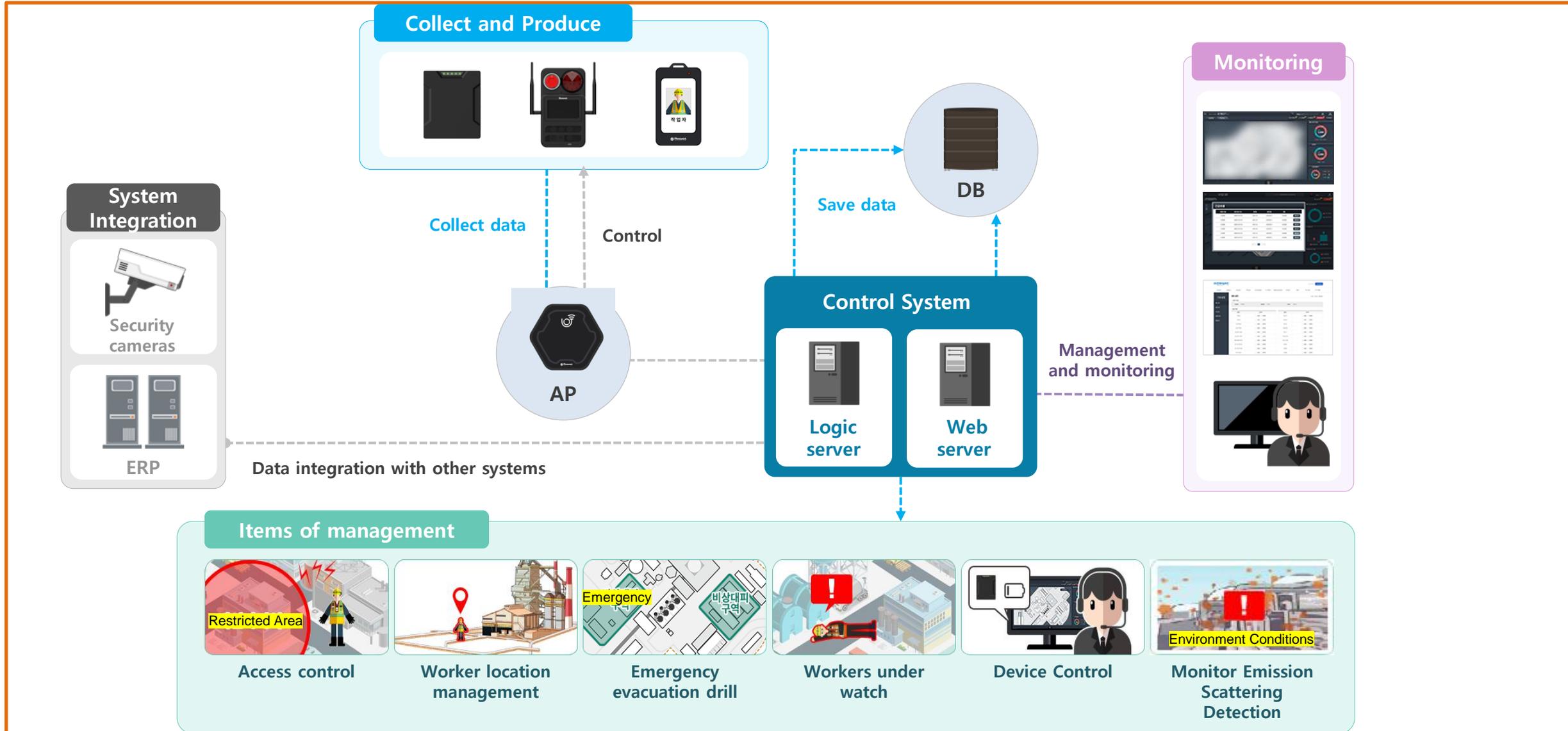
Smart Monitoring System is not only present in accordance to Chemical Exposure Standard under Industrial Safety and Health Act such as TWA and STEL but also monitoring the concentration of hazardous gases through reference threshold





The Stealth Safety

IV. System Configuration





Environmental Sensor



Oxygen, Carbon monoxide,
Hydrogen sulfide,
Methane(5 types of gas)

Sensor that measures
concentration of fine dust
(PM 1.0, PM 2.5, PM 10) in
addition to Temperature /
Humidity measurement

BLE AP PS_AB_100



Receive Beacon data
and send to server
which are originated
from workers or
worksites

Gateway PS_AG_100



Receive or send worker
location information to server

Tag for Safety Helmet



Send to server worker's
location data

Detect worker movement
with acceleration sensor

Use acceleration sensor
based variable Tx/Rx
period



ID-Card Style Tag PS_TP_100



Send worker location data to server

Detect worker movement with acceleration sensor

Use acceleration sensor based changing Tx period

This ID Card Type Tag is an application case

Tags will be modified for your purpose

✓ Normal State



Mobile State

Signal sent with Tx Power of 0dBm and interval of 0.9 seconds



Stationary State

- When not worn for more than 10 minutes signal interval changes to 10 seconds
- When not worn for more than 30 minutes stop Tx



State of Restart

When worn again it goes back to mobile state and starts sending signal at interval of 0.9 seconds

✓ When Emergency Button is pressed



- **More than 4 seconds**
Send signal with signal power(TX) +3dBm or stronger toggle Red LED

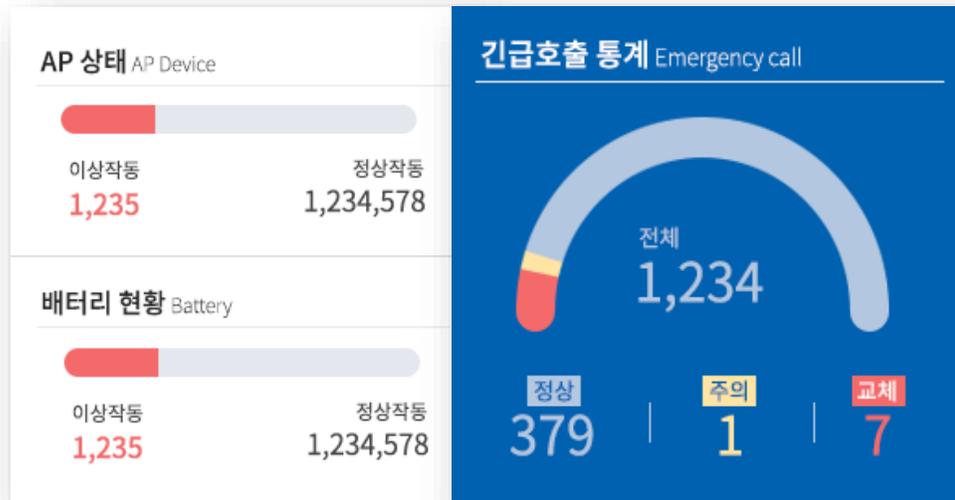


- **More than 4 seconds once again**
Signal power back to default and Restarts sending normal signal
LED OFF





→ Device status and Statistics



→ Temperature/Humidity and Harmful material related monitoring



→ Access Information and Event Timeline

출입정보 Access Information	이벤트 타임라인 Event Timeline
<p>⚠ 2020-01-07 15:24:07 작업자(UserID) 위험지역 접근</p>	<p>! 2020-01-07 15:24:07 sk태그03 (14B457E874E7) 위급상황발생(MANDOWN)</p> <p>! 2020-01-07 15:24:07 sk태그03 (14B457E874E7) 위급상황발생(MANDOWN)</p> <p>🚶 2020-01-07 15:24:07 작업자A (UserID0123) 위험지역 출입</p>
<p>⚠ 2020-01-07 15:24:07 작업자(UserID) 미인가지역 접근</p>	
<p>⚠ 2020-01-07 15:24:07 작업자(UserID) 미인가지역 접근</p>	
<p>⚠ 2020-01-07 15:24:07 작업자(UserID) 미인가지역 접근</p>	

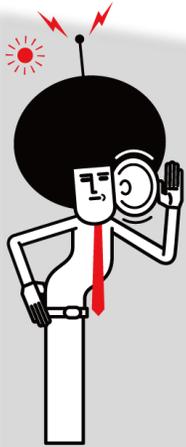
→ Provide reports that meet customers needs



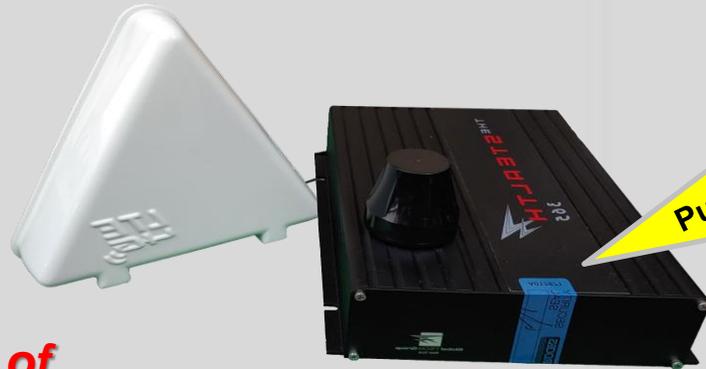
print reports using collected data



The Stealth Safety *combining with* The Stealth Prison



The Stealth Prison



Detect illegal usage of
phone or wireless communication devices at
the restricted area

“Enforcing Security”

Cinergy

The Stealth Safety



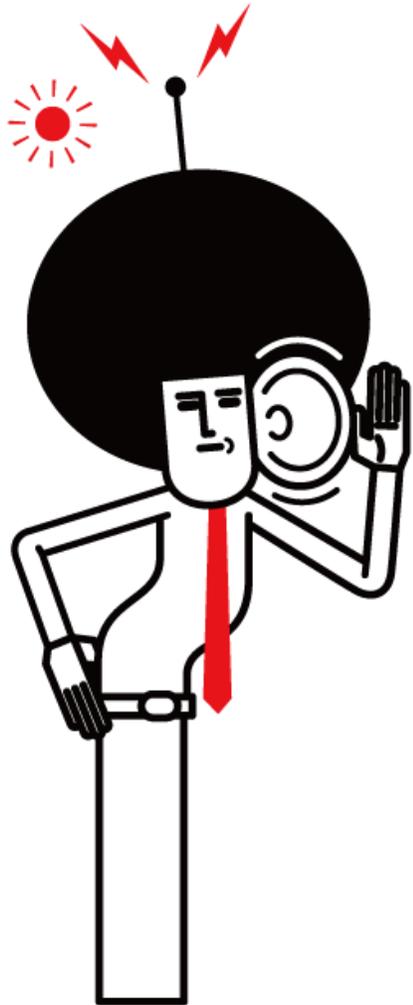
Monitoring & Control Prisoner

- Location & movements
- Prevent to visit unapproved area
- Emergency Alert & Request rescue

“Enforcing Safety”

Scalable





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<http://globaltscmgroup-usa.com>

<http://globaltscmgroup-korea.com>

<http://thestealthlab.org/>

<http://www.thestealthmall.com/>