# UniAegis

UniAeigs provides more secure and smarter security solution with sensing mobile signal. UniAeigs is security solution to detect any device connecting internet. Unlikely video analysis, UniAegis has no blind spot. UniAegis helps to observer more securely area where sensor detects suspect.

By detecting mobile signal, our solution can apply to restrict and security area and different types of public facilities.
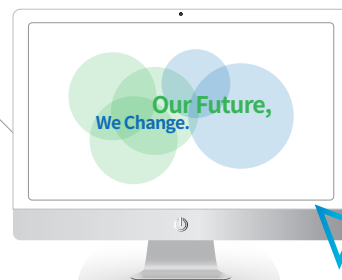
IoT

Our Future, We Change.
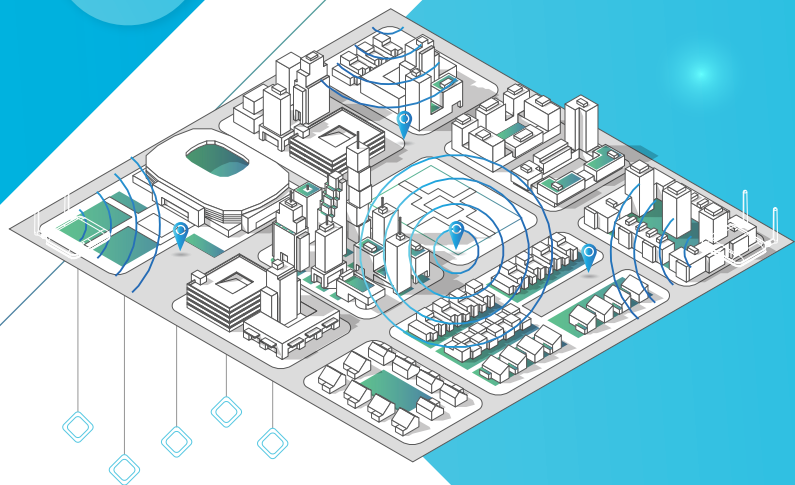
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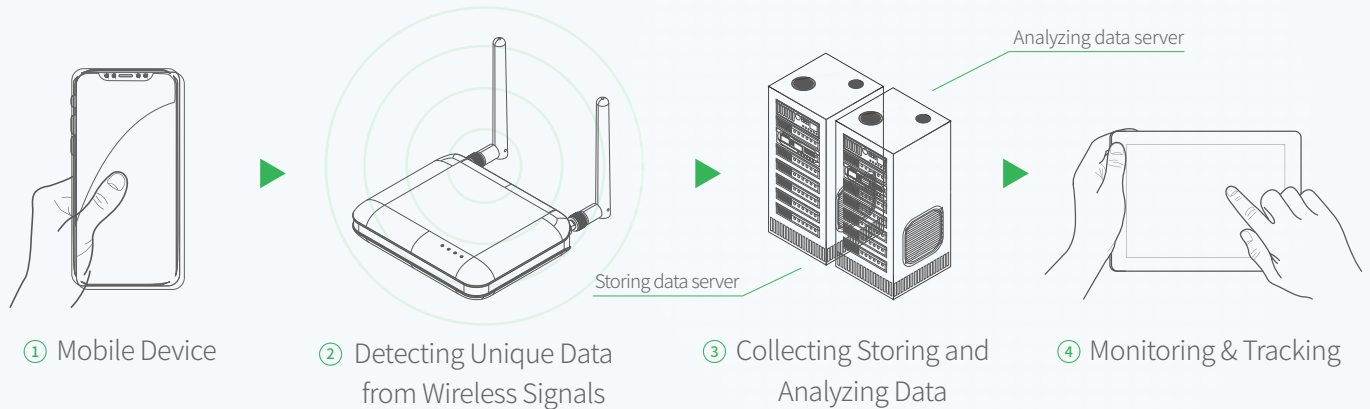**Tel** : +82.31.724.2549   **Fax** : +82.31.724.2546
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Operation Flow

UniAegis detects mobile devices using Wi-Fi signals and collects distinctive features that are unique to each device. The collected data are analyzed and used for monitoring unauthorized or unusual movements of the mobile holder, providing stronger security in various fields.

Analyzing data server

Storing data server

① Mobile Device   ② Detecting Unique Data from Wireless Signals   ③ Collecting Storing and Analyzing Data   ④ Monitoring & Tracking

① UniAegis can detect any mobile device through Wi-Fi signals and could also identify whether the device has been registered or not. The detected mobiles and sensors are each classified according to their security level from 1 low to 5 high. Based on such settings, when a level 2 mobile user is detected nearby a level 3 sensor, the user will be regarded 'suspicious' and will be subject to close monitoring

② Sensor detects mobile signals in coverage. As registered suspected mobile and low security level mobile are detected, UniAegis sends alert to security manager.

③ Servers store and analyze mobile data information. Servers manage detection information and register information such as security level and mobile user information.

④ The user-friendly dashboard interface makes it easier to monitor and track down movements of those regarded as 'suspicious' with higher accuracy.

Solution Feature

Flexibility

① Depending on the security site, the number of sensors, data and server increases accordingly. Through Cloud service, the number of sensors is not limited.

② As open API platform, UniAeigs can connect to established IoT platform. Service provider can analyze them by themselves.

Reliability

① Mobile unique information is encrypted to visitor ID in server. Mobile personal information cannot be exposed to anyone.

② UniAegis' high accuracy has been proven through numerous field tests, wherein which the number of detected mobile devices and the actual only had minor difference rates.

Diversity

① Through its wireless signal detecting technology, UniAegis not only brings higher security but also provides massive amounts of analyzed data that could be utilized in various fields. Road traffic analysis, tracking illegal fishing, detecting smuggling activities in the sea are some of its few application points.

② Data information can be applied to different Matrix (chart, pie, table etc.)

Specification

⊘ **UniAegis S-100**

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Outdoor Waterproof Case

⊘ **UniAegis S-200 & S-210**

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Outdoor Waterproof Case

S-100 is the first generation UniAegis which detects only 2.4Ghz Wi-Fi frequency. M2M(Machine to Machine) modem or AP (Access Point) is required to operate the sensor.

[Product Specification]

Input power	Antenna	Memory	PoE
12V / 1A	Dual External	64MB DDR	Standard 802.3af (36-57V Passive)

Operating Temperature	Product size	Certifications
0 ~50°C	112.2mm x 86.8mm x 25.3mm(W x D x H)	KC, CE, RoHs

S-200 is a model that detects both 2.4Ghz & 5.0Ghz Wi-Fi signals. For operating this model, a data USIM is required and its differentiating point is that both the M2M modem and antenna are embedded inside the device.

[Product Specification]

Input power	Antenna	Memory
12 / 1A	Dual internal Designed antenna External WCDMA 3G antenna (optional)	128MB (DDR3)

PoE	Operating temperature	Product size
IEEE 802.3af (36~57V)	0 ~70°C	107mm x 92mm x 32.8mm(W x D x H)

Certification	Wi-Fi sensing
CE, KC, RoHS, IP66 (TBD)	2.4GHz/5GHz Full channels

S-210 is customized model for installation environment and client requirement.

Wi-Fi sensor with AP (AP mode) : it provides internet service while sensing mobile signal.

Wi-Fi sensor Station mode : Mobile data is transmitted to AP through wireless network.

[Product Specification]

	Wi-Fi Sensor(AP Extension)	Wi-Fi Sensor(Station)	Wi-Fi Sensor(S-200)
Wi-Fi standard	IEEE 802.11 b/g/n	IEEE 802.11 b/g/n	IEEE 802.11 b/g/n/ac
CPU speed	900MHz	900MHz	900MHz
PoE	⊘	⊘	⊘
2.4G Wi-Fi Sensing	⊘	⊘	⊘
5G Wi-Fi Sensing			⊘
Ethernet	⊘	⊘	⊘
M2M	⊘		⊘
Wireless router	⊘		

USE
CASES

Building, hospitality and Shopping center

UniAegis can be used for employees in office building and member in shopping center for safety management or CRM. Employee and member mobility pattern information is useful for setting up security strategies

Residence, apartment and house

UniAegis provides higher security at residential areas by spotting out unauthorized access within the building. Residents, visitors, seniors and staffs will have their mobile device registered on the system and will be classified accordingly. Once an unregistered mobile is detected or if a mobile is detected outside of its permitted area, UniAegis will perform focused monitoring on the target.

Airport, Port and Prohibited area

UniAegis can be implemented at military bases to detect mobiles that are not registered on the system.
UniAegis also helps prevent smuggling or illegal fishing. For such marine surveillance, the sensor will be installed on drones, patrol boats, or lighthouses to detect suspicious mobile signals across the sea.

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