OneMoreSecurity Inc.
SOLUTION
GUIDEBOOK

We will run towards the goal of becoming a "Global Unicorn Company" that provides customer-centric innovative technologies in the field of "Information Security and Artificial Intelligence"

OMS
One More Security

Contents

OneMoreEYE (OMEYE)

AI Video Surveillance All-in-one Safety Platform

Smart video search
Smart selective surveillance
Video export

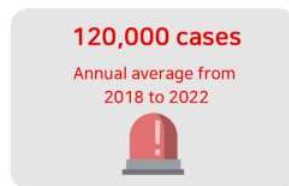▶ **Awards & Certifications**

Excellent Product designated by PPS	**New Excellent Product** designated by MOTIE	**Innovative Products** designated by PPS	**Good Software (GS) Level 1, TTA** Software Quality (ISO/IEC 25023,25041, 25051)
KISA K-ICTC Intelligent CCTV Performance	**KISA K-NBTC** Face Recognition (ISO/IEC JTC1 SC37)	**KOLAS** System and Software Quality (ISO/IEC 25023)	**FIDO Authentication** Secured Login	**WSCE 2022** Awards Winner
MOTIE Minister's Awards commercialization of new technologies	**Excellent Information Security Technology** designated by MSIT	**MSIT Minister's Awards** Information Security Merit	**MSIT Minister's Awards** Information Security Product Innovation Contest	**MSIT Minister's Awards** Excellent Company

☐ Necessity of Introducing

approx. x2

120,000 cases
Annual average from 2018 to 2022

5-18x times more

Above 2,000 people die annually
(# of annual industrial injury : 130,000 people)

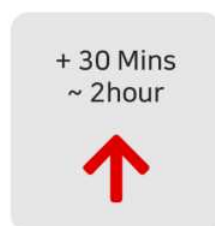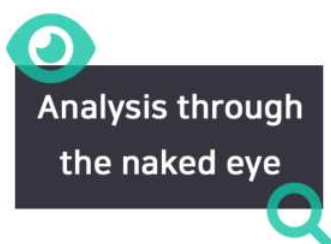# of increase in crimes against polices

# of reported missing persons every year in Korea

# of increase in CCTVs against standards

# of death in industrial accidents every year in Korea

☐ Problems of Existing Solutions

Analysis through the naked eye →

+ 30 Mins ~ 2hour

Cannot analyze automatically for tracking the object

- 50%

Cannot monitor dangerous situations at all times

1 hour-long video

Multiple CCTV footages

Accuracy

Event-based surveillance

☐ Technical Approach

Smart Video Search

Tracking Target	Accuracy

People

·**Face Recognition**
(Face mask on/off) ──────────→ 99.98% (Mask On:98.45%)

·**Person Re-Identification**
(Body shapes, clothes, shoes, etc.) ──────→ Rank 1 (99.2%)

──────→ Within Rank 5 (99.8%)
(Re-ID for Top 5 Candidates)

Smart Selective Surveillance

Detect events automatically for people
(loitering, trespassing, falling, overcrowding, counting, jaywalking, etc.),
vehicles (intrusion, illegal parking, license plate, etc.),
and other events (flooding, fire, smoke, hard hat, safety strap, illegal dumping, SOS, etc.)

☐ Key Points

·**High Accuracy**
(Guaranteed fully verified algorithm
performance by KISA and KOLAS)

·**Fast Analysis**
(Takes under 6 seconds for 1 hour long video)

·**Real-Time Detection**
(Detects the target's location in real-time)

·**Efficient Analysis**
(Analyzes multiple targets and CCTVs all together)

·**No CCTV Replacement**
(Applicable to any existing environment)

·**Smart Selective Surveillance**
(Reduces control agents' intense workload & reliance)

☐ Service Diagram

Multiple CCTVs

↕ Video

VMS

Video Storage Server   Video Display Server

←→ Video Data Linkage with VMS

OMEYE

AI Analysis Server

Analysis Result
←→
Analysis Request
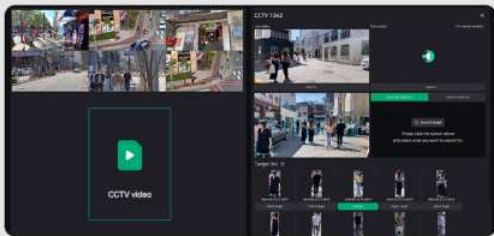
Control Agent's PC
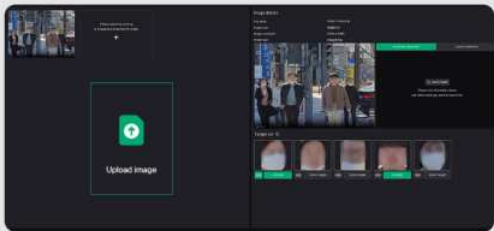
☐ Important Screen and Operational Scenario

Smart Video Search

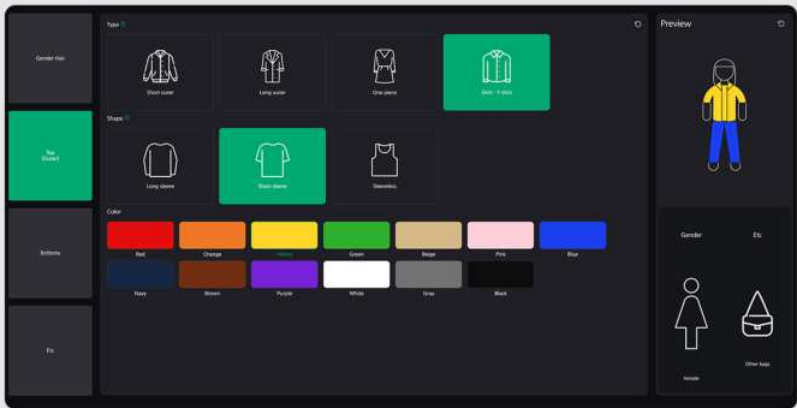Fast search for targets from multiple CCTVs with supporting real-time detection and animated route map

● Select Targets

by selecting from **CCTV video** (body or face)
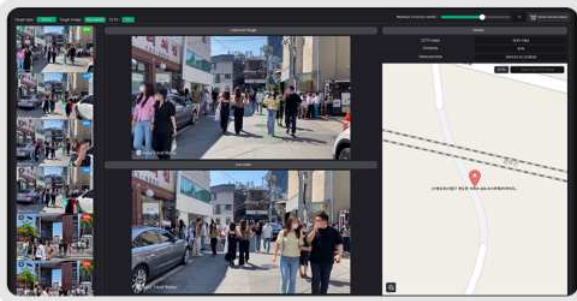

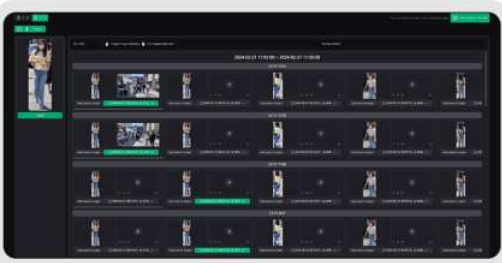by uploading **pictures** (body or face)

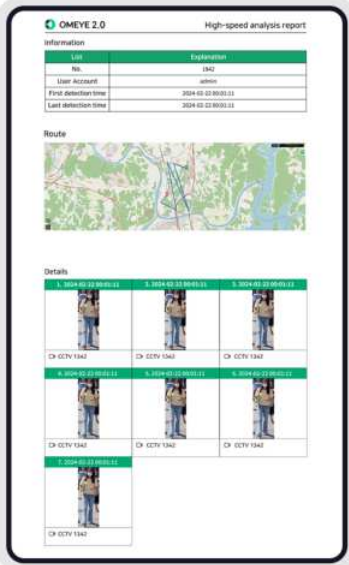by selecting **attributes**

● Select Conditions

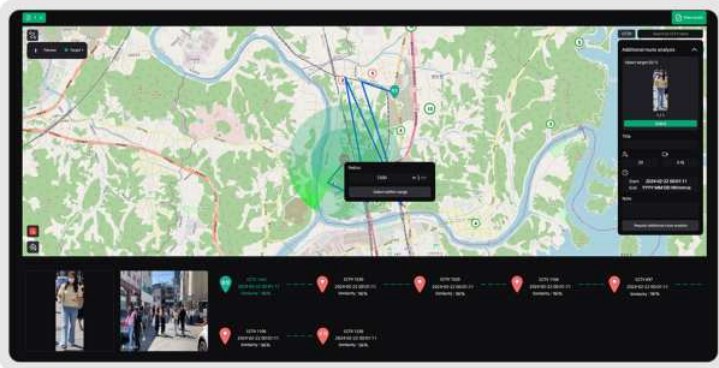### ● Select the Live Button for Real-time Detection

● Select Candidate Targets

● Create Animated Route Maps

● Download Report Results
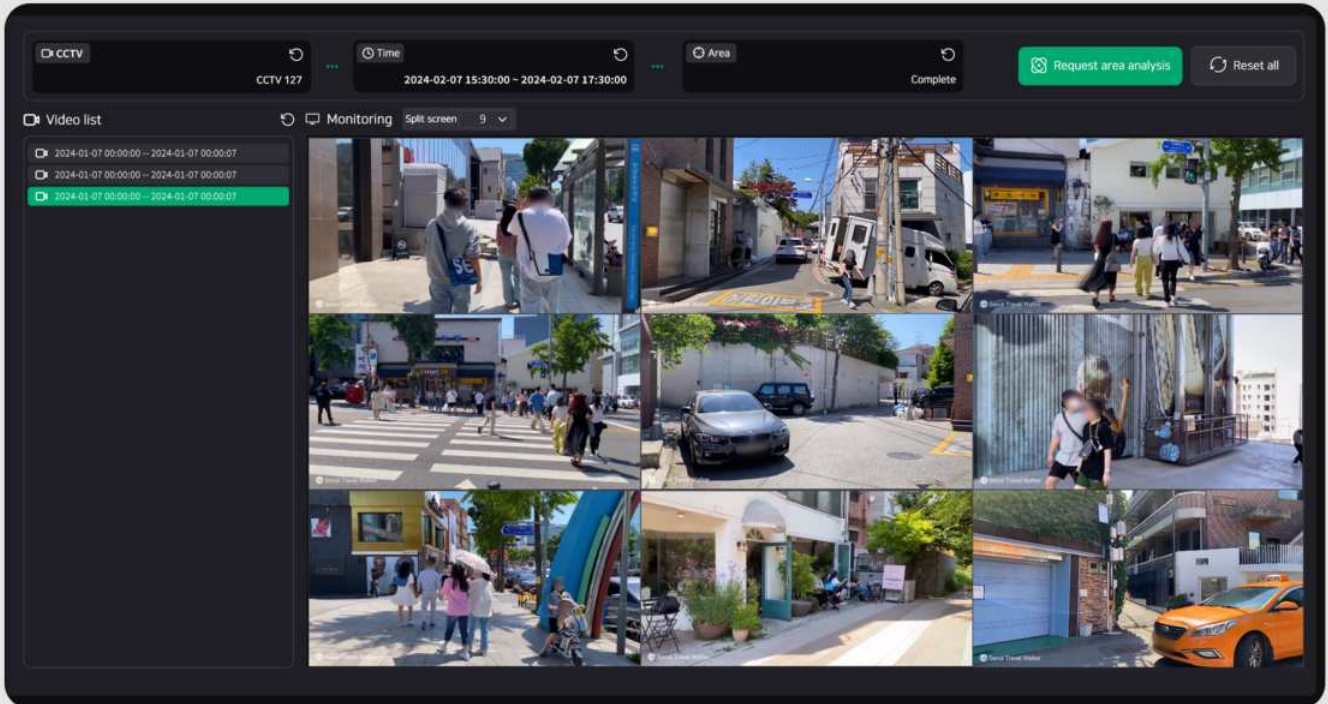
Fast search for objects within the region of interest (ROI) especailly for investigating hit and run cases and more
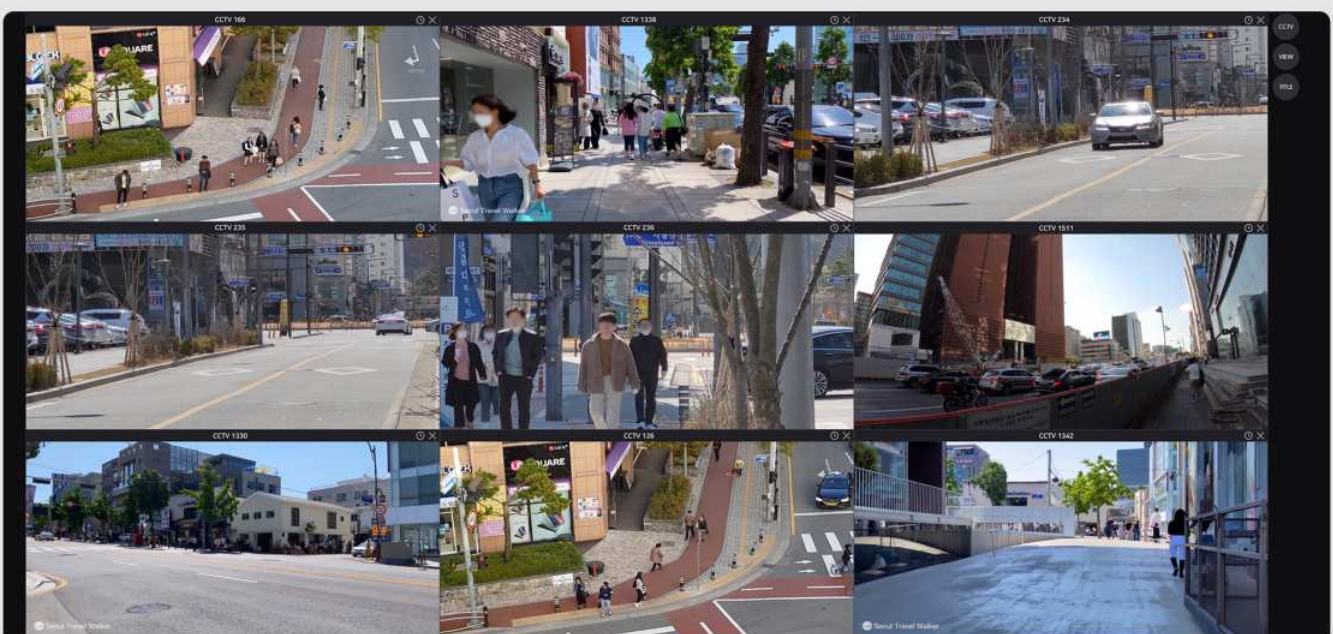
Area analysis

Area analysis results

CCTV monitoring

Real-time video monitoring with supporting playback time, capture, download, etc.

Monitoring (1-4-9 split)

Smart Selective Surveillance

Surveillance for public safety

Event detection for fire, smoke, intrusion, loitering, fall down, overcrowding, illegal dumping, illegal parking, jaywalking, etc.
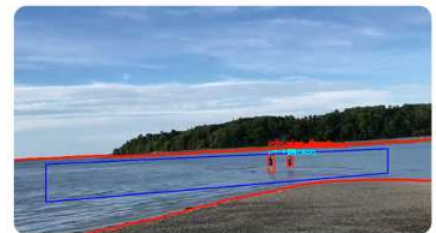

fire/smoke

intrusion

fall down

overcrowding

illegal dumping

flooding/intrusion (flooded area)

Surveillance for industrial safety

Event detection for no safety helmet, no safety ring, SOS, fire, smoke, trespassing, loitering, fall down, etc.

no safety helmet

SOS hand signal
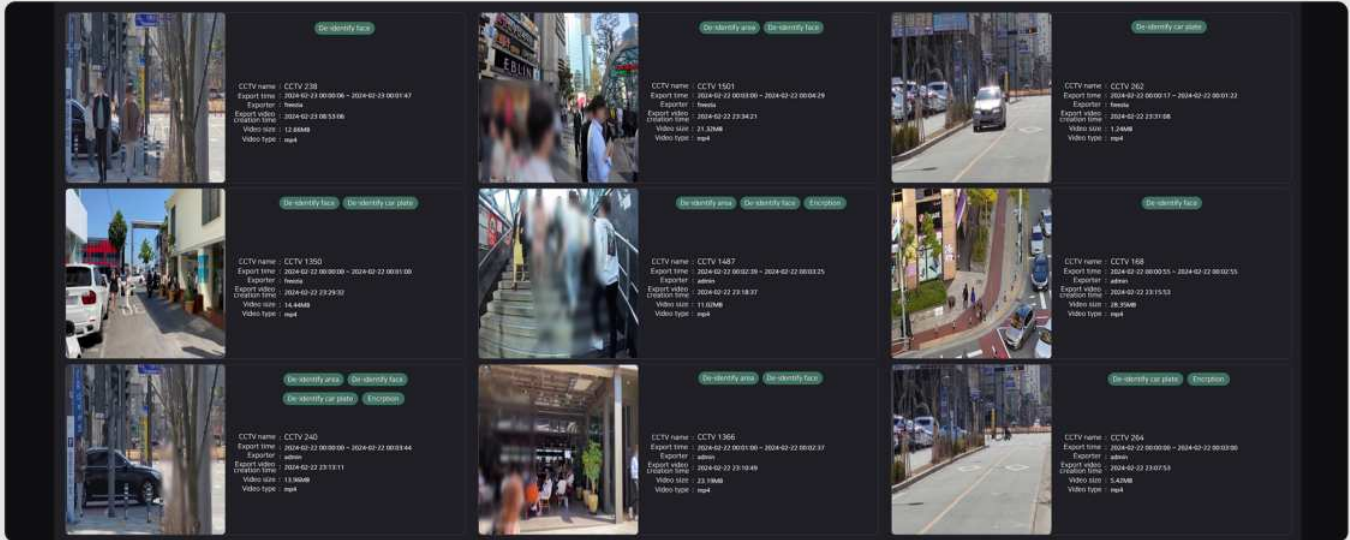

no safety hook

fire/smoke

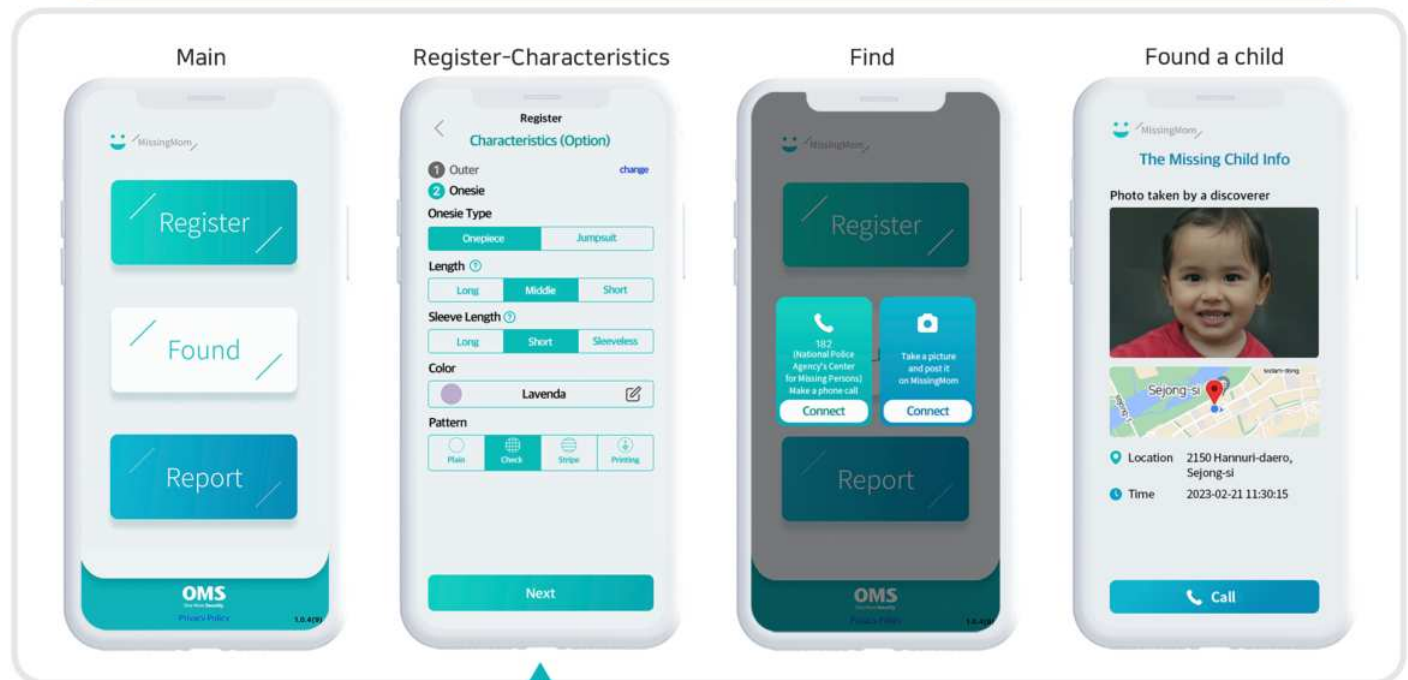**heavy vehicle access detection**

fall down

Video Export

- Privacy de-identification by AI for personal information such as face, license plate, and specified area
- Video export control with supporting only playable dedicated media player with passwords

Video export history

MissingMom: mobile app-based smart participatory living lab service for finding missing persons

Main	Register-Characteristics	Find	Found a child

Application Scenario for AI Convergence National Safety Service
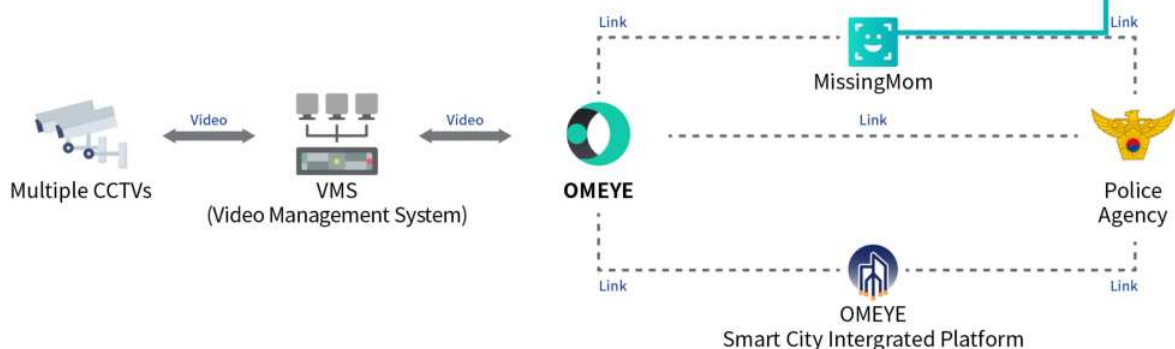
Multiple CCTVs → Video → VMS (Video Management System) → Video → **OMEYE**

MissingMom — Link

Police Agency — Link

OMEYE Smart City Intergrated Platform

MissingMom

Smart Service to Secure the Safety of Missing Children & Dementia Patients

Providing a smart service to report a missing person fast via smartphone or kiosk

▶ Certifications

Face Recognition
certified with 99.98%
Accuracy by KISA
(ISO/IEC JTC1 SC37)

Innovative Products
designated by
Public Procurement Service

System and Software Quality
certified under the
accredited test by KOLAS
(ISO/IEC 25023)

MSIT Minister's Awards
Information Security Merit

MSIT Minister's Awards
Excellent Company

☐ Key Points

·**Software performance and quality are fully certified by KISA, TTA, and KOLAS**
 (Acquired accredited certification for self-developed face recognition model (OMFACE)
  by TTA V&V)

·**Smart city living lab service**
 (Service applied with face recogntion to find missing people that enables active participation
 of citizens)

·**Simple report**
 (Simple report via registration of wearing information and face/body image)

·**Establishment of an efficient system for guaranteed civil safety**
 (Reduce costs through intelligent service of guaranteed civil safety)

☐ Necessity of Introducing
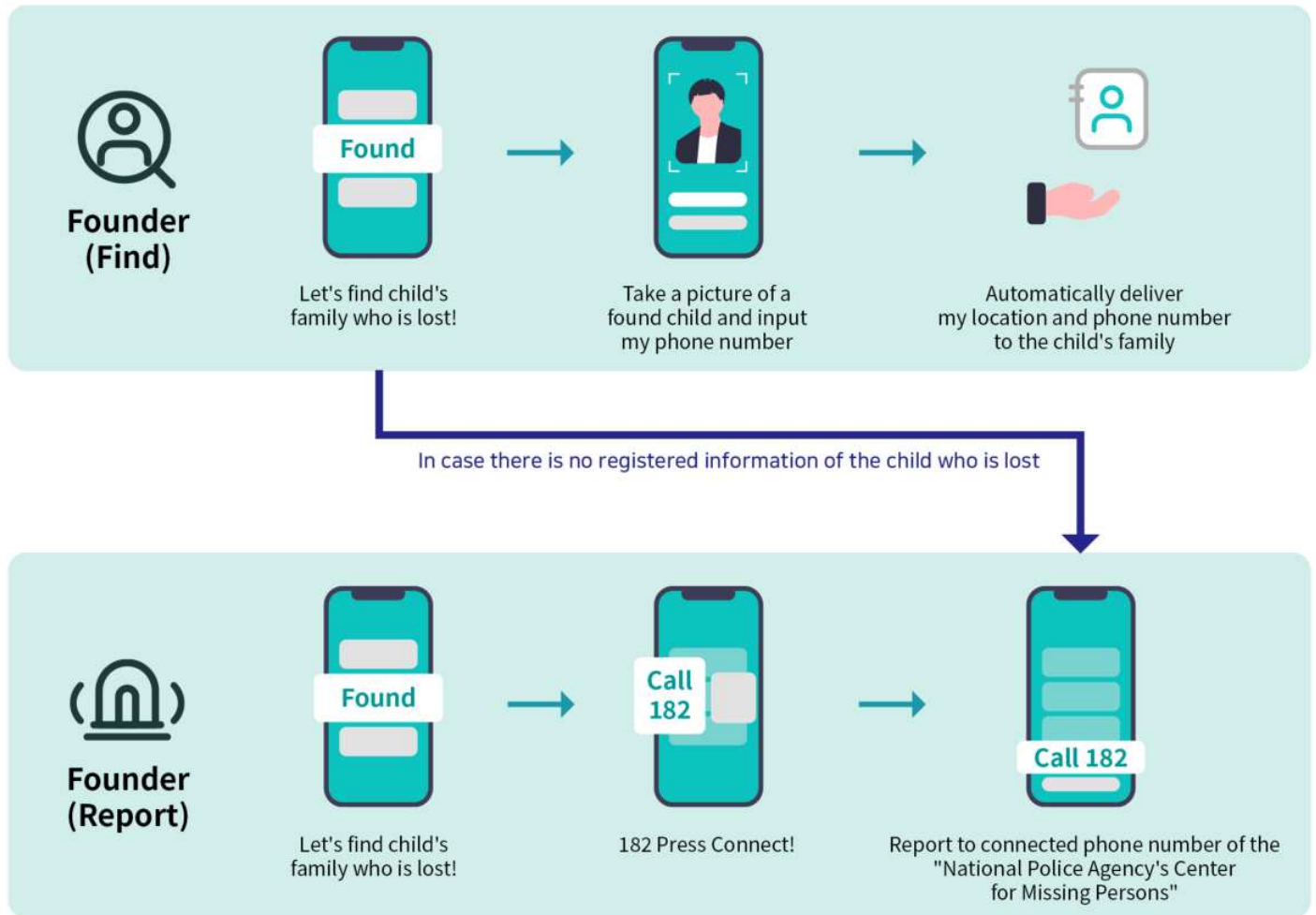

·It is urgent to prepare measures regarding the public safety from the increasing number of reports of missing people such as children, dementia patients, intellectual, autistic, mentally disabled, etc.

·As of 2022, the number of annual reports for missing children and elderlies with dementia is approximately 50,000 cases in Korea according to the statistics of the National Police Agency

☐ Operational Scenario : Family

Safe Registration Cases

⌞∪⌝ Safe Registration

Register a face photo → Register full body photo → Register characteristics

disappearance situation

🏠 Report

Report registered information immediately

Unregistered Cases

disappearance situation

🏠 Report

Register a face photo → Register full body photo → Register characteristics

Notify the local government police

Tracking and visualizing the person's movement path

from CCTV video via OneMoreEYE

☐ Operational Scenario : Founder

Founder (Find)

Found

Let's find child's family who is lost!

→

Take a picture of a found child and input my phone number

→

Automatically deliver my location and phone number to the child's family

In case there is no registered information of the child who is lost

Founder (Report)

Found

Let's find child's family who is lost!

→

Call 182

182 Press Connect!

→

Call 182

Report to connected phone number of the "National Police Agency's Center for Missing Persons"

☐ Service Scenario

MissingMom Safe Registration Cases

Safe Registration

Register a face photo → Register full body photo → Register characteristics

disappearance situation

Report

Get a face photo → Get full body photo → Get characteristics

MissingMom Unregistered Cases

disappearance situation

Report

Register a face photo → Register full body photo → Register characteristics

Safe Registration

Filing of a report

the National Police Agency

Search for Missing Persons

Video

Local government CCTV control center

VMS (Video Management System) ↔ Multiple CCTV

Forward reporting information (face/full body/characteristics)

MissingMom Server

Missing person report information inquiry

OneMoreEYE

MissingMom Missing Person Information Inquiry

Find with a face photo | Find with full body photo | Find with characteristics | Find with CCTV based on missing locations

Tracking the missing person's movements

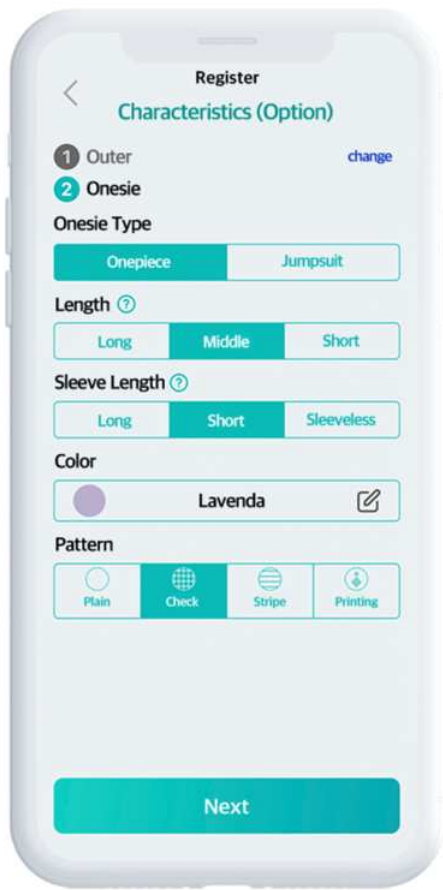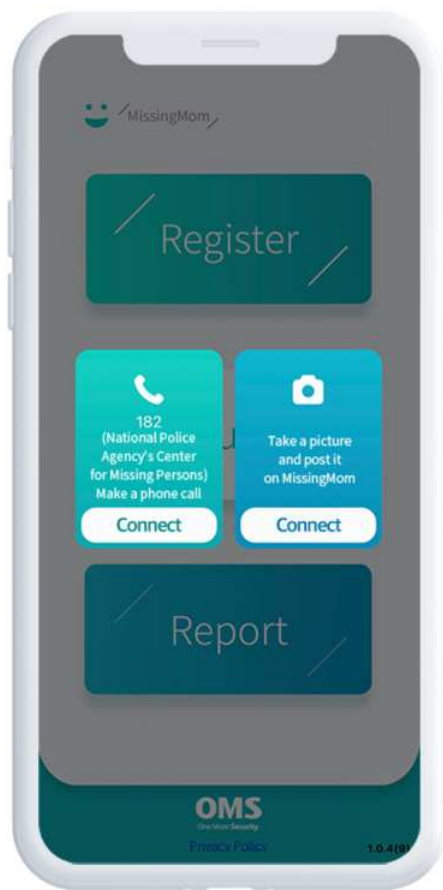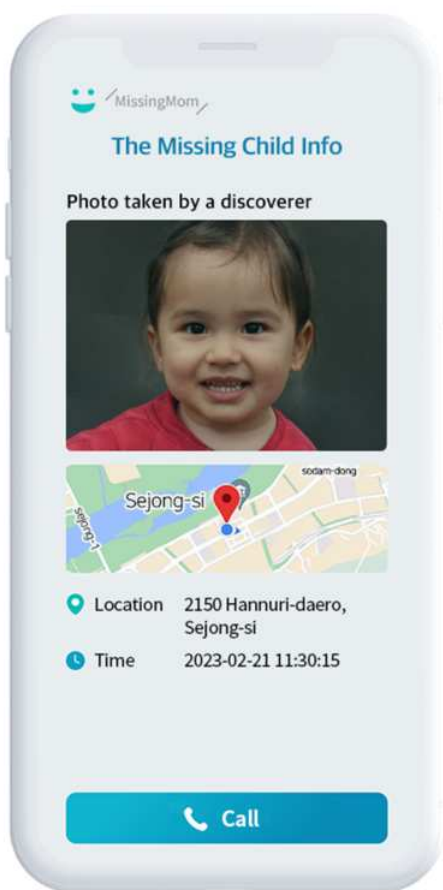# ☐ Important Screen

Main

Register-Characteristics

Find

Found a child

OneMoreFACE (OMFACE)

Deep Learning-based Face Recognition

Face authentication service to easy use of payment, access control and more

▶ Certifications

| Face Recognition certified with 99.98% Accuracy by KISA (ISO/IEC JTC1 SC37) | System and Software Quality certified under accredited test by KOLAS (ISO/IEC 25023) | MSIT Minister's Awards Information Security Merit | MSIT Minister's Awards Excellent Company |

☐ Key Points

· **High facial recognition accuracy rate of 99.98% based on the test of K-NBTC from KISA**
 (Face recognition works even with changes in lighting, pose, expression, and accessory
 (Also works with a 'Mask'))

· **Secured service trust**
 (Acquired the accredited ceritication of K-NBTC test about facial recognition algorithm
  performance from KISA)

· **Real-time processing**
 (Processing time of user authentication is less than 1 second based on 100,000 face DB)

· **Support cameras from 640*480, Windows, Linux, Android and IOS**
 (Requires even low hardware and supports for various operating systems)

· **Available to apply on various services**
 (Applying to access control, attendance management, medical appointment, E-TEST,
  image processing system, ERP, video conferencing solution, etc.)

☐ Performance Test Results

Accruacy rate of face recognition with change in lighting, pose, expression, and accessory

Tested out 4,250,000 times through K-NBTC

💡	Lighting Recog Rate	**100%**
😉	Expression Recog Rate	**99.92%**
🙂	Pose Recog Rate	**100%**
👓	Accessory Recog Rate	**100%**

☐ Service Application

OneMoreFACE (OMFACE)

Face authentication service to easy use of payment, access control and more

Deep Learning-based Face Recognition

Face authentication service to easy use of payment, access control and more

OMFACE

Application Cases

MissingMom

Smart Service to Secure the Safety of Missing Children & Dementia Patients

Providing a smart service to report a missing person fast via smartphone or kiosk

MissingMom

Smart Service to Secure the Safety of Missing Children & Dementia Patients

Providing a smart service to report a missing person fast via smartphone or kiosk

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OMEYE

AI Video Surveillance All-in-one Safety Platform

Smart video search supporting high-speed analysis with image, attributes, or specified area for tracking human for both past and real-time

Smart selective surveillance supporting event monitoring in real-time for both public and industrial safety

Video export supporting AI privacy de-identification and dedicated player with passwords

OneMoreEYE (OMEYE)

Intelligent video analytics solution for CCTV operators

AI Video Surveillance All-in-one Safety Platform

OneMorePASS (OMPASS)
On-Premise/Cloud
FIDO (Fast IDentity Online) Solution

biometric and passwordless authentication
Phishing resistant MFA(Multi-Factor Authentication) Service

▶ **Certifications**

level1
GOOD Software

Software Quality
certified as level 1
Good Software by TTA
(ISO/IEC 25023, 25041, 25051)

fido CERTIFIED FIDO2

Secured Login
with FIDO Authentication
certified by FIDO Alliance

nipa

Cloud Computing Quality
certified under
the accredited test by NIPA

MSIT Minister's Awards
Information Security Merit

MSIT Minister's Awards
Excellent Company

☐ **Necessity of Introducing**

· Increasing demand for user authentication technology that guarantees strong security and user convenience

· Perfectly solves the risk factors of password authentication according to FIDO standard authentication method based on public key

Several Risks of Password Authentication

· Most users use less than 5 passwords

· More than 50% of users have never changed their passwords in 5 years

· Passwords are the leading cause of 80% of data loss

· Most users reuse the same password across multiple sites

☐ Next-Generation Integrated Authentication Solution

Resolves the inconvenience and anxiety of password methods Guarantees user convenience and security at the same time

High Security
Based on PKI

User Convenience
with No Passwords

Multi-Scalability
to Applicate Various AuthN Methods

☐ Advantages

·User Convenience
Apply various authentication methods and manage integrated authentication lifecycle with this one OMPASS (mobile authentication device).

·Completely Eliminate Security Vulnerabilities
Through the "passwordless login", complete removal of security vulnerabilities due to password use and management and also satisfy one's security compliance.

·Compliance with International Standards
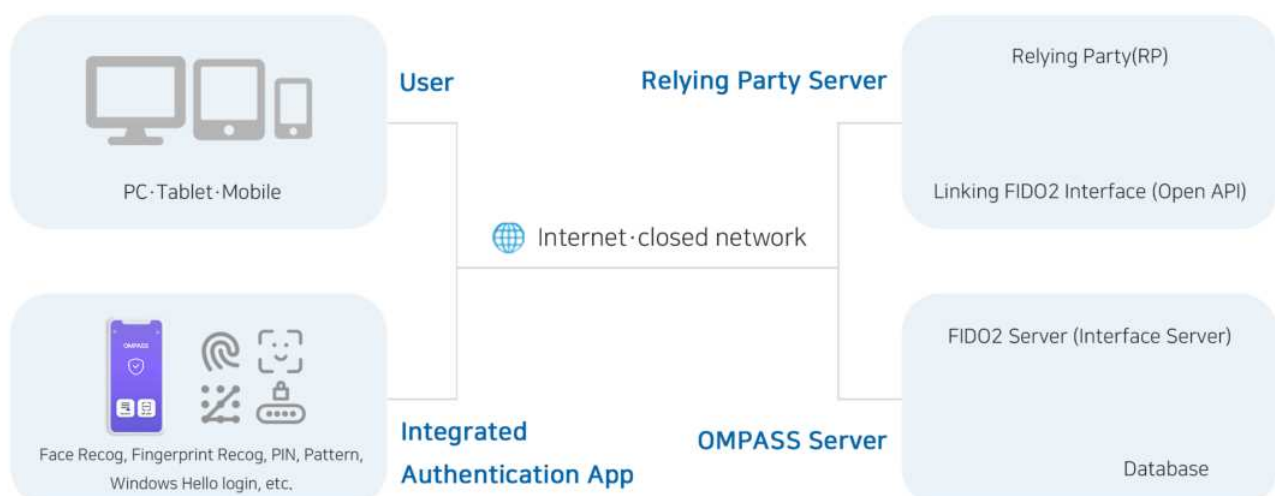Comply with FIDO Alliance international standard based on public key.

·Establishing a zero trust environment
Complete a zero trust environment by establishing a strong and reliable FIDO authentication system.

☐ Specification Diagram

System Specifications
·Server: Windows, Linux (Intel Xeon 2GHz or higher, RAM 64GB, HDD 1TB or higher recommended)
·Client: Android, iOS

PC·Tablet·Mobile

User

Relying Party Server

Relying Party(RP)

Internet·closed network

Linking FIDO2 Interface (Open API)

Face Recog, Fingerprint Recog, PIN, Pattern, Windows Hello login, etc.

Integrated Authentication App

OMPASS Server

FIDO2 Server (Interface Server)

Database

☐ Key Points

Various AuthN Methods

·**Various authentication methods can be expanded**

Application of the latest various user authentication technologies based on public Key

·**User-selectable authentication**

Supports various authentications such as Face Recog, Fingerprint Recog, PIN, Pattern,
Windows Hello login, and more

Client-Centric Flexibility

·**Client-Centric Service**
Provides an optimized service for the environment of customer needs through user integrated
authentication app or SDK

·**Minimize Developing Time**
Provides linking module (interface server) to minimize applying time and developing work

·**Integratable authentication services**
Supports all web-based web-based service, Windows client, Windows login, mobile app, Linux PAM, MaxOS,
Radius, Redmine, Gooroom login, etc. client

·**Optimized the Customer Environment**
Supports UAF (Universal Authentication Framework) and U2F (Universal Second Factor)

·**Optimized the Network Environment**
Full support for Internet and closed network environments

Enhanced System Security

·**Secured Security**
Conducted penetration testing through a professional white hacker team and completed security measures

·**Enhanced Administrator Authentication**
Requires OMPASS authentication separately when accessing the admin page

·**Service Access Control**
By browser, user location, IP address, and time schedule

·**Prespond Strongly againt Phishing Attack**
Verifies the user access device (or browser)

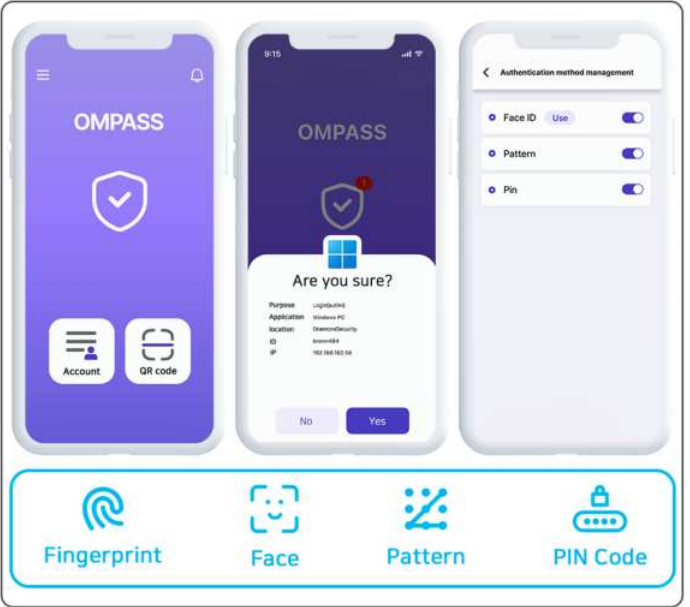·**Reinforcement of Mobile Authentication Device Security**
Verifies the jailbreak, forgery, and latest version of the user device

·**Policy Violation Alarm Service**
Sends a push notification or email to administrator or user in case of violation of authentication policy
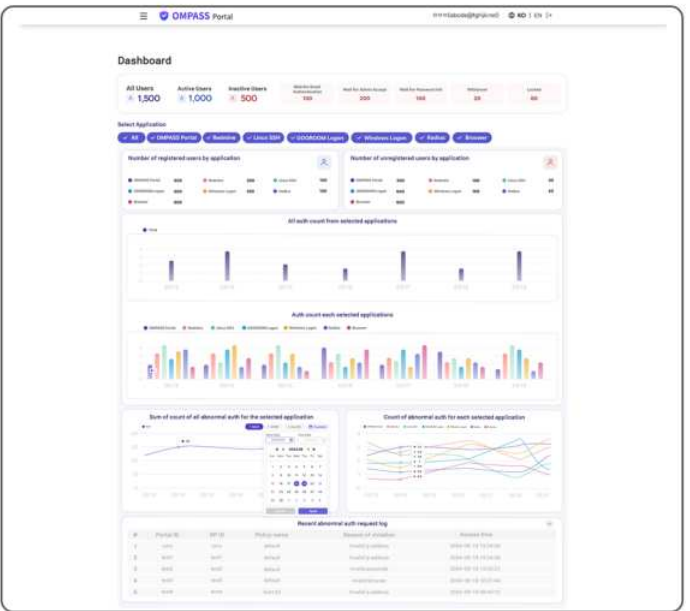
☐ Main Screen

Mobile App

- Allows users to log in with mobile authentication devices
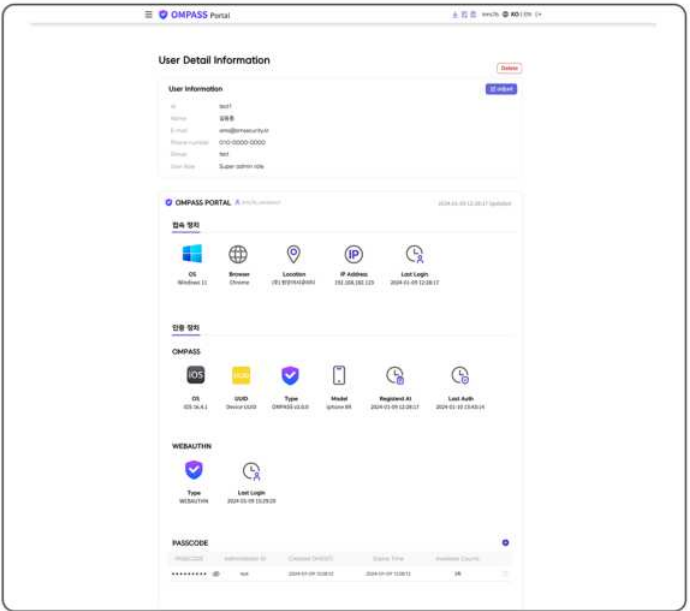- Provide user selection row authentication methods

Windows Login

- Provides Windows login service
- Provides OTP authentication methods in an offline environment

Admin Page

- Provides dashboard functionality for administrators
- Provides application management, user management, and log management capabilities

Managing device properties

- Provides user and authentication device details management services
- Providing PASSCODE certification services for non-certified persons

MyPCProtector 4.0

Vulnerability Management and Scanning Solution for PC
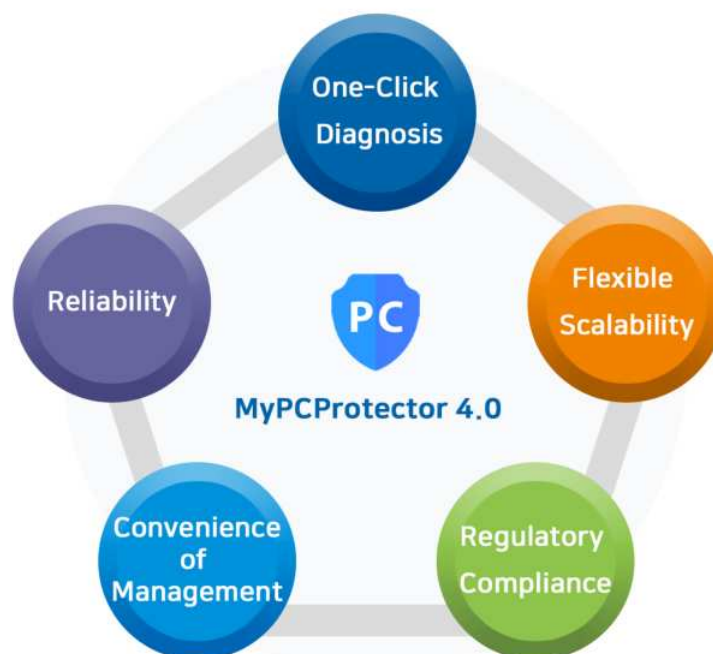
One-click diagnosis and measurement

▶ **Certifications**

level1

GOOD Software

Certified 1st Grade of Good Software (GS)
from the Korean Telecommunications
Technology Association (TTA)

Registered as Untact Service
Voucher Business Supplier
from the Ministry of SMEs and Startups

MSIT Minister's Awards
Information Security Merit

KONEPS
Korea ON-Line
E-Procurement System
Registered in Korea
On-Line E-Procurement System,
Nara Market

MSIT Minister's Awards
Excellent Company

□ MyPCProtector 4.0

OMSMyPCProtector 4.0 provides PC security vulnerability diagnosis and its solution that allows the endpoint security to be operated in the most secured status against security threats on the user's PC.
! Most security incidents start from vulnerable PCs of internal users with low security awareness.

One-Click Diagnosis

Flexible Scalability

Reliability

PC

MyPCProtector 4.0

Convenience of Management

Regulatory Compliance

☐ **Advantages**

One-Click Diagnosis

· One-click PC vulnerability check
· Forced PC vulnerability check and measuring
  function provided (measures unable to terminate)
· Provides easy measureable UI (automating function is provided)
· Provide a guidance into specific measures

Reliability

· Official council member of My PC Protector
· Acquired the Certification Level 1(=1st grade) of
  Good Software(GS), the Certificate of Software Quality from
  the Telecommunications Technology Association(TTA)

Convenience of Management

· Provide statistics and reporting data on PC inspection results
· Provide intuitive dashboard function
· No need for separate customizing
· Provides agent automated integrity check function
· PC status can be checked at all times through widget service

Regulatory Compliance

· Compliance with the Cybersecurity Diagnosis Day

Flexible Scalability

· Addition of administrator-defined checklists can be created
· Possible to support network blocking through "S-Capsule" linkage
· Support linking to third-party solutions
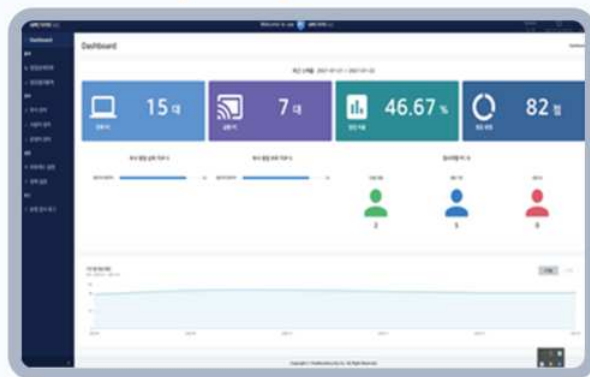
□ Important Screen
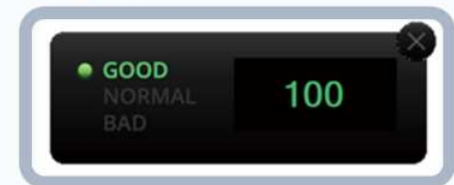
Main Screen (Client)

User's PC Check

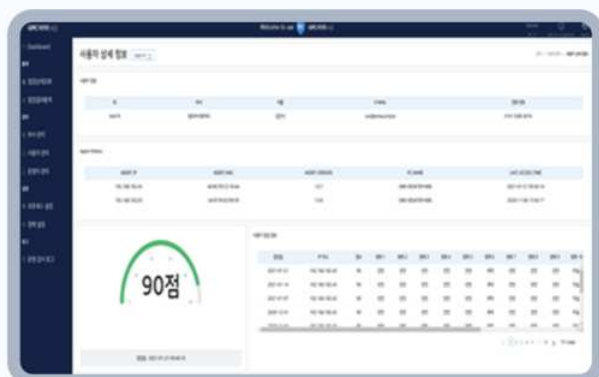## User's PC Check Result

Dashboard (Server)

Widget

Results Report

User Details

☐ Key Points

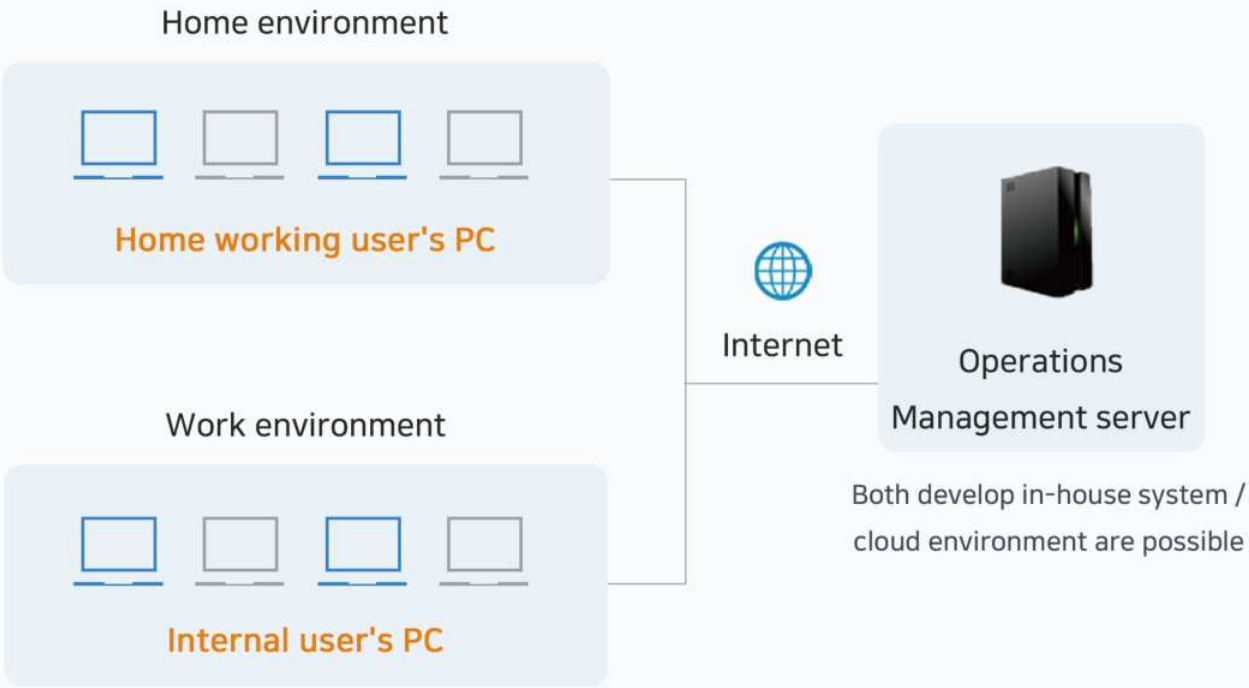| Functions	Characteristics
Vulnerability Check & Measure	·One-click diagnosis and measurement for 16 types of vulnerability including the "Cyber Security Diagnosis Day" checklist ·Possible to force inspection according to the schedule (monthly/weekly/daily) policy through central management (cannot be terminated) ·Display the inspection results for each list as something like safe/vulnerable so that users can be intuitively understand
Result Analysis	·Provide individual evaluation report and detailed history ·Provide informations on overall/departmental evaluation/inspection rate and top 5/bottom top 5 of departmental rating, and provide a function to download the result report
Management	·Support linking with HR databases and other security solutions ·PC status can be checked at all times through widget service ·Automatic inspection of client program to verify forgery or falsification (security enhancement)

☐ Service Diagram

"Manage to maintain a secured status through periodic diagnosis and measures on user's PC security vulnerability"
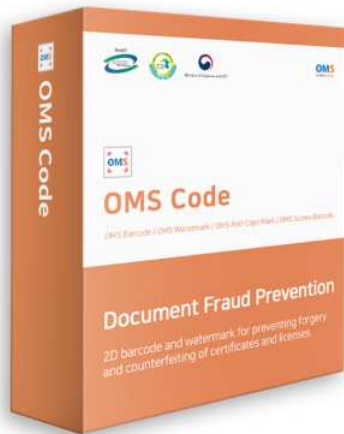
Home environment

Home working user's PC

Internet

Operations Management server

Both develop in-house system / cloud environment are possible

Work environment

Internal user's PC

OMS Code

Document Fraud Prevention

2D barcode and watermark for preventing forgery and counterfeiting of certificates and licenses

▶ **Certifications**

level1

GOOD Software

Certified 1st Grade of Good Software (GS) from the Korean Telecommunications Technology Association (TTA)

Designated as Innovative Procurement Product on Venture Nara

MSIT Minister's Awards Information Security Merit

MSIT Minister's Awards Excellent Company

☐ Application Scenario

OMS Code can be applied to various domains such as certificate forgery verification, book voice conversion, activation, expiry date, inventory management, fintech, healthcare, copy protection, etc.

OMS Barcode
High-density 2D barcode

OMS Watermark
Embrocating watermark

OMS Anti-Copy Mark
Copy protection

OMS Screen Barcode
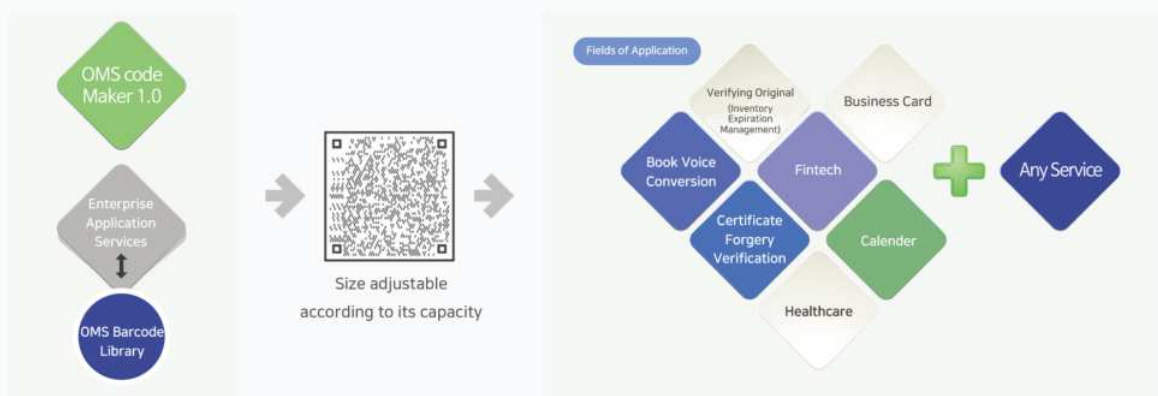Low-density 2D barcode

□ Key Points

◈ OMS Barcode (High-density 2D barcode)

| High-density 2D barcode with the world's largest data insertion in 300dpi environment

· Information stored in high-density 2D barcodes can be printed out to screen and voice through mobile app
· Data encryption / decryption via KCMVP crypto module
· Optimized solution that can help the visually impaired and elderly people to improve accessibility of information (compliance with the Broadcasting and Communication Standards (KCS.KO-06.0181))

Generation
· Barcode generation using Windows PC-only applications (OMS Code Maker) or libraries

OMS code Maker 1.0
Enterprise Application Services
OMS Barcode Library
Size adjustable according to its capacity

Fields of Application
Verifying Original (Inventory Expiration Management)
Business Card
Book Voice Conversion
Fintech
Certificate Forgery Verification
Calender
Healthcare
Any Service

Detection
· Easy acquisition via mobile app (Android·iOS)
  (provided with OMS mobile app or library)
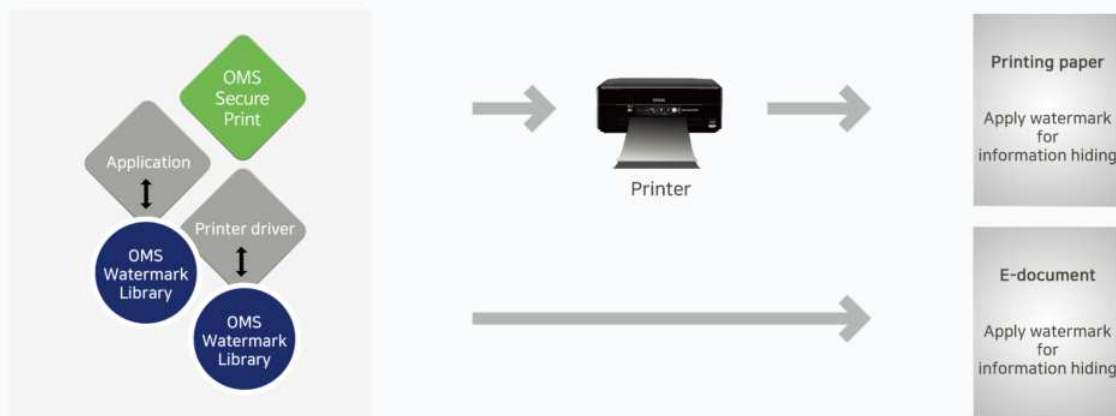· Acquire OMS barcode displayed on printout and monitior screen

ANDROID   iOS

Audio output

SCREEN

Image / text display

◈ OMS Watermark (Embrocating Watermark)

| Watermark for hiding information with invisibility (whole embrocating method)

· The mobile app allows you to acquire hidden informations in the watermark when shooting anywhere in the printout.
· Applicable to various services such as printout generator tracking, certificate forgery verification, activation, security paper export history managemendt, etc.
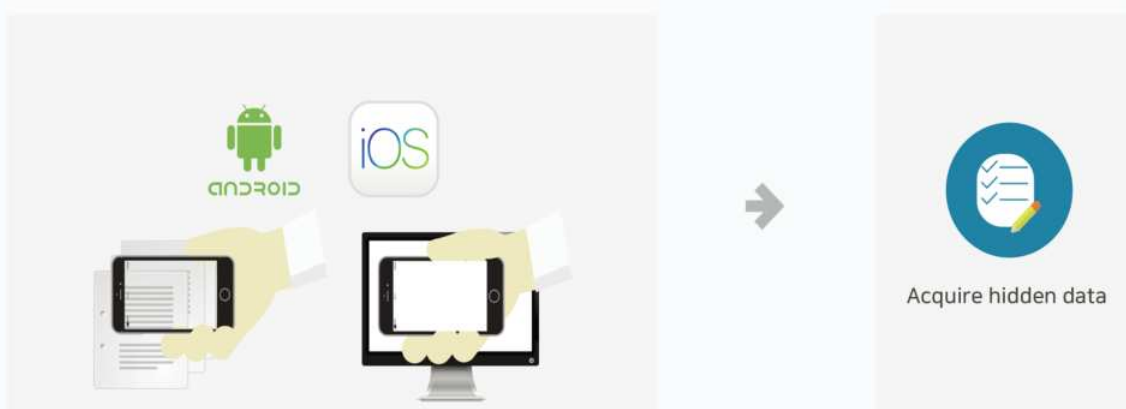
Generation

· Apply watermark when printing through OMS print control solution or dedicated library

Detection

· Easy acquisition via mobile app (provide with OMS mobile app or library)
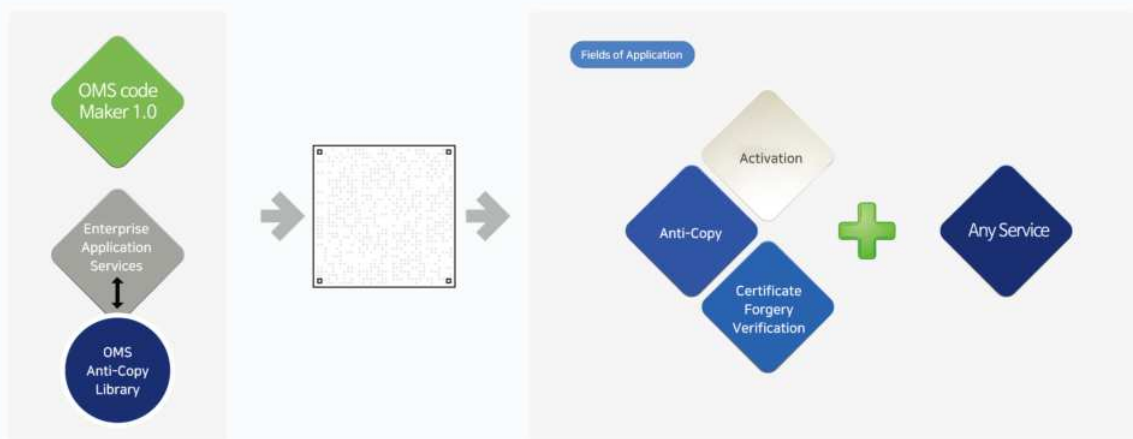· Acquire OMS Watermark displayed on printout and monitor screen

◈ OMS Anti-Copy Mark

| Determine whether to copy through the naked eye or mobile app

· Apply it to various services such as verifying the original, activation, certificate forgery verification, etc.

Generation · Apply Anti-Copy Mark using OMS Code Maker

OMS code Maker 1.0

Enterprise Application Services

OMS Anti-Copy Library

Fields of Application

Activation

Anti-Copy

Certificate Forgery Verification

Any Service

Detection · Easy acquisition via the naked eye or mobile app
(provided with OMS mobile app or library)

android   iOS

Verifying copies of original documents by acquiring hidden data
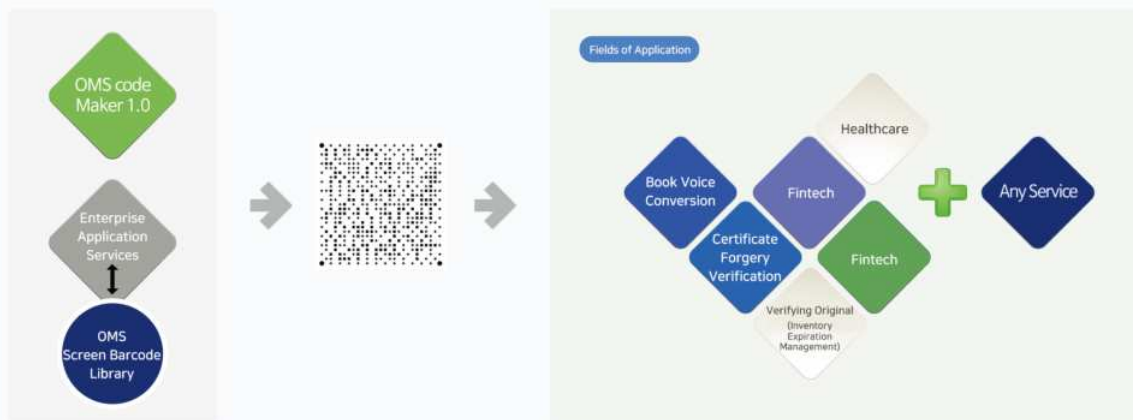
Naked eye recognition

◈ OMS Screen Barcode (Low-Density 2d Barcode)

| Low-density 2D barcode optimized for screen environment

· Information stored in low-density 2D barcodes can be acquired through mobile app
· Applicable to various services such as user authentication, certificate forgery verification, book voice conversion, activation, expiry date, inventory management, fintech, healthcare, etc.

Generation   · Generate the barcode using Windows PC-only applications
(OMS Code Maker) or libraries

Detection   · Easy acquisition via mobile app (Android·iOS)
(provided with OMS mobile app or library)
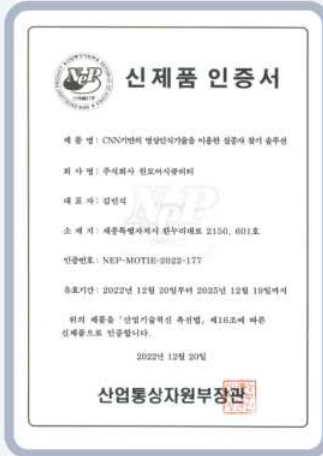· Acquire 'OMS Watermark' displayed on printout and monitior screen

Certifications

Product Certificate

OMEYE v1.0
Excellent Product
of Public Procurement Service

OMEYE v1.0
New Excellent Product (NEP)
Certification

OMEYE v2.0
Innovative Product Certificate

OMEYE v1.0, MissingMom v1.0
Innovative Product Certificate

OMEYE v1.0
KISA K-ICTC Certificate
(Loitering, Intrusion, Abandonment)

OMEYE v1.0
KISA K-ICTC Certificate
(Loitering, Intrusion, Falldown)

OMEYE v1.0
KISA K-ICTC Certificate
(Loitering, Intrusion,
Queueing/Counting)

OMEYE v1.0
KISA K-ICTC Certificate
(Loitering, Intrusion, FireDetection)

OMEYE v1.0
Excellent Information Security
Technology Certificate

OMEYE Smart City Platform
TTA Certificate

OMPASS v1.0
FIDO Alliance
International Certification

OMPASS v1.0
Cloud Computing Certification

OMFACE v2.0
KISA K-NBTC Certificate

OMFACE v1.0
KISA K-NBTC Certificate

OMEYE v1.0
TTA GS 1st Grade Certificate

OMPASS v1.0
TTA GS 1st Grade Certificate

My PC Protector 4.0
TTA GS 1st Grade certificate

OMS Secure Print v1.0
TTA GS 1st Grade certificate

OMS Code v1.0
TTA GS 1st Grade certificate

S-Capsule v1.0
TTA GS 1st Grade certificate

Company Certificate

Excellent Technology
Evaluation Company
Certificate

G-PASS Company
Certificate

Inno-Biz
Certificate

KRX Startup Market(KSM)
Certificate

Venture Company
Certificate

Start-up Company
Certificate

Direct Production Confirmation
Certificate

Corporate Research Institute
Accreditation

Awards & Registrations

Minister Award of the Ministry of Science and ICT (Excellent Company 2024)

Minister Award of the Ministry of Commerce Industry and Energy (Contribution to national industrial development through commercialization of new technologies)

Minister Award of the Ministry of Science and ICT (Information Security Merit)

Minister Award of the Ministry of Science and ICT (Information Security Product Innovation Contest)

KINPEX 2022 KBIZ Awards Winner

Minister Award of the Ministry of Science and ICT (Excellent Company 2022)

WSCE 2022 Awards Winner

Gangseo-gu Smart City Idea Competition Awards Winner

OMEYE v1.2 Copyright Registration

OMEYE Smart City Platform Copyright Registration

OMEYE v2.0 Copyright Registration

OMEYE v1.0 Copyright Registration

OMS Secure Print v1.0 Copyright Registration

OMS Code v1.0 Copyright Registration

S-Capsule v1.0 Copyright Registration

MyPCProtector 4.0 Copyright Registration

MissingMom v1.0 Copyright Registration

OMPASS v1.0 Copyright Registration

OMFACE v1.0 Copyright Registration

Patents

Nation	Name of invention	Registration Number
Germany	Device and Method for Providing Missing Child Search Service Based on Face Recognition Using Deep Learning	11 2021 004 252.1
Germany	APPARATUS AND METHOD FOR TRACKING MISSING PERSON BASED ON ATTRIBUTE	11 2022 000 061.9
Republic of Korea	APPARATUS AND METHOD FOR TRACKING MISSING PERSON BASED ON ATTRIBUTE	10-2022-0147011
PCT	APPARATUS AND METHOD FOR TRACKING MISSING PERSON BASED ON ATTRIBUTE	PCT/KR2022/017439
United States of America	APPARATUS AND METHOD FOR TRACKING MISSING PERSON BASED ON ATTRIBUTE	18/009,560
UK	APPARATUS AND METHOD FOR TRACKING MISSING PERSON BASED ON ATTRIBUTE	2218660.5
Republic of Korea	AI-based illegal parking management method and device	10-2022-0120845
UK	Device and Method for Providing Missing Child Search Service Based on Face Recognition Using Deep Learning	2213332.6
PCT	Method and apparatus for providing personal protection alarm	PCT/KR2022/006361
Republic of Korea	Method and apparatus for providing personal protection alarm	10-2545383
United States of America	Apparatus and method for providing missing child search service based on face recognition using Deep-Learning	17/606,590
Republic of Korea	Server for tracking missing children and deep learning based tracking method for moving routes of missing children from its server	10-2305038
PCT	Apparatus and method for providing missing child search service based on face recognition using Deep-Learning	PCT/KR2021/010589
Republic of Korea	Server for tracking missing children and deep learning based tracking method for moving routes of missing children from its server	10-2270899
Germany	Method and apparatus for preventing illegal outflow of electronic documents	15171427.6
Republic of Korea	Method and apparatus for video recognition	10-2020-0064978
Republic of Korea	Method and apparatus for registering face and pose for face recognition	2018-0146791
Republic of Korea	Method and apparatus for preventing illegal leakage of electronic documents by self-response	10-1781970
United States of America	Information insertion method, information extraction method, and information extraction device using point-based information that are strong against geometric distortion	9710872
United States of America	Method and apparatus for preventing illegal outflow of electronic documents	14/736144
Republic of Korea	Method and apparatus for preventing illegal leakage of the electronic documents	10-1599740
Republic of Korea	Method and apparatus on removable storage medium control for preventing data leakage	10-1460297
Republic of Korea	Method and apparatus for checking PC security	10-0961180
Republic of Korea	Method and system for checking PC security	10-0862617

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