



BDAPP

Mobile Monitoring Service with Existing Facilities

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BDApp - Mobile Facility Monitoring Service

Transform

Existing Building to Smart Building without Replacing Facilities



Clients















Founding Year

Feb 2021

Company Valuation

USD \$20M

Prize

CES 2025 Innovation Awards



Business Location







Korea

USA

Vietnam

1000+

Installed



Fire False Alarm Rate 99%



Delayed Response to Real Fire Alarm Fatigue and Loss of Trust



October 11, 2022

Report reveals 90% of false fire alarms are caused by faulty apparatus

According to the latest Home Office report, false alarms make up 98% of automatic fire alarm confirmed incidents in 2020/21; with 90% of this figure a result of faulty apparatus.

Newsweek

Jan 10, 2022

Bronx Building Residents Say Fire Alarm Often Went Off, Ignored Sound Before Deadly Blaze

Residents in the Bronx apartment building that caught fire January 9, 2022, said the fire alarms would frequently go off and they ignored the initial warning because they thought the smoke detectors were a

ThePaly Voice

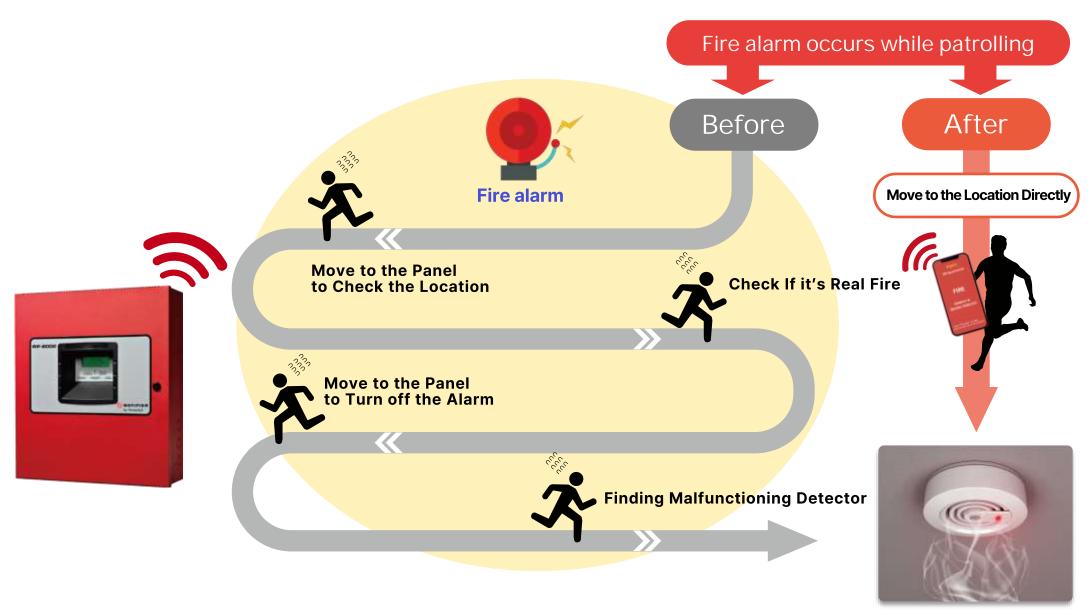
May 4, 2021

Smoke detector malfunction triggers fire alarm

A faulty smoke detector in the Palo Alto High School Tower Building triggered a fire alarm at 9:35 a.m. Wednesday morning, forcing students to evacuate to the football field.

Problem Analysis





Problem – Limitations of Existing Solutions



Large-scale Facility Investment Required

Fire Facility Manufacturer

Government

Private Company









High-Cost Facility Investment for Replacing Existing Panel

At Least \$50,000 Not Stable

Failed to Interface with Existing Facilities

Simple Fire Notification No Location

Analog Interface Limited to Small Building

Simple Fire Notification Not Stable





Fire Safe Zone

Solution – How BDApp Works



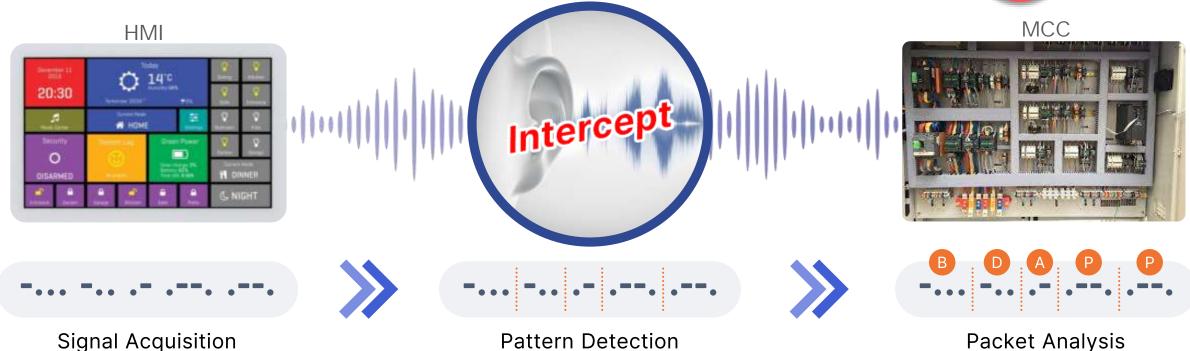


Solution – The Core Technology of BDApp



Internal Communication Signal Analysis With Al Algorithms





Our technology dramatically reduces analysis time by incorporating 20 years of facility-related S/W, H/W, and know-how into multiple algorithms

Analysis time for one facility: 4 months



Solution – Core Functions



Remote Monitoring

BD Building

Fifth Floor 10-2

After the site and check to the sit

2 Fire Alarm Reset



Immediately recover from a false fire alarm by resetting it remotely

3 CCTV Integration



In the case of a real fire, check the location's CCTV camera and immediately respond to the fire situation 4 Multi Buildings



Real-time monitoring and control by integrating the facility status of multiple buildings by a single manager

Mobile alert of fire location and activated equipment, 30 seconds before the building-wide fire alarm sounds

the fire, if the alarm continues to activate after reset via app

Solution – Comparison with Previous Solutions



Manual
Installations &
Only for Small
Buildings

Previous Solution

3

Expensive Installation Simple Costs Fire Notifications

4

No Unified Control of Multiple Facilities/Regions 5

Stability Issues



Fire Location and Detail Information

Unique Facility Interface Technology
Alerts on Fire Locations,
Operating Equipment, Faults, and More

The Realization of **Economic Feasibility**

Software Data Collection Through Analysis of Communication Signals Inside the Facility Immediate Remote
Reset in case of
Malfunctions

BDAPP

Al and
Big Data Utilization Allows for
Immediate Remote Reset

Integrated View of Combined Information

Immediately View Fire Information, On-site CCTVs, Other Operating Facilities, and, Etc., Via Mobile App Unrivaled Stability

Automatically Detect On-site Problems and Recover Immediately, Based on 20 Years of Facility Monitoring Operational Experience







Water Tank



Parking









4

CCTV

Energy



Light

\$50 per month

5 Channels or less

Standard

\$100 per month

Fire Remote Control

Premium

\$300 per month

Fire, Gas, Water Tank, Elevators, etc.



- 3 Users Included; \$3/Month Per User for Additional Users
- 50% Off for Additional System Installations
- The More Facilities, The Higher Average Price

Current Status - Product Installation Status



Since 2021, Installed in over 1000 Buildings

Retention Rate 99%

Factory



Hotel & Hospital





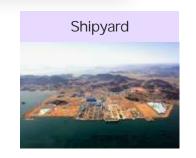
SKYBAY











Apartment



Office & Commercial















Global Expansion - Applicable to Both Developed and Developing countries



BDApp Service Provided in USA and Vietnam





BDApp Fire Safe Zone



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Fire Location Notification and Evacuation Route Guidance for People in the Building

- Real-time fire incident location updates allow residents in affected areas to immediately verify fire occurrences and share the information with all residents.
- Visitors can also receive fire alerts by registering via a QR code.
- Building maps utilizing public data display evacuation routes and provide fire incident location information to firefighters during emergencies.
- After registration for innovative procurement, promotional activities are planned for B2G, hospitals, hotels, museums, and other establishments.





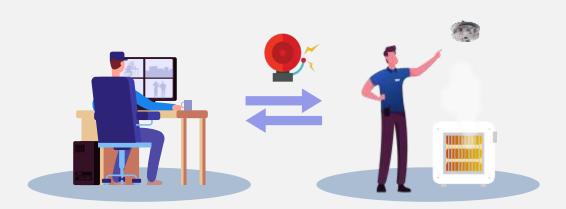
KPI 1: Response Time

Response Time

95%↓

Before

Because of frequent detector malfunctions, someone must continually monitor the fire control panel. After checking onsite that it is not a fire, it takes time to come back to the panel and silence the alarm.



After

Since multiple people can receive immediate fire alerts and locations, there is no need for someone to be permanently stationed at the control panel, thus reducing response time. After checking onsite that it is not a fire, the alarm can be silenced immediately on the app.











KPI 2: Cost Reduction



Before

Overnight and designated staff necessary to monitor facilities in case of emergency.

After

24/7 remote monitoring allows for reduction of in-person staff, leading to cost reductions.







KPI 3: Integrated Monitoring & Control



Before

No ability to centrally monitor multiple buildings or monitor all facilities, such as show case refrigerator.



After

Integrated management of multiple buildings and all facilities within an area/campus





66

After installing BDApp, all fire facilities are back to normal...

Real-time alerts went to 4 workers as the fire broke out, and we watched the fire spreading right away through the app, all thanks to BDApp.

[The property manager at the Lotte Cinema building]



The Kyunghyang Newspaper 2023.04.13

Incheon Lotte Cinema building fire extinguished...
"No casualties"

The fire was extinguished 2 hours and 40 minutes after it started, and all visitors and employees were safely evacuated.



Emergency Mobile Control Tower



Investor Relations 2025

EMCT Inc.

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