Alioth®

Smart Evacuation System

The Safety through Adaptive Evacuation Management System

INTELLIGENT

CONTROL

ADAPTIVE

WIRELESS

ZEMPER

What is Alioth?

ALIOTH is a smart evacuation system which optimizes the evacuation time in an emergency, adapting to the situation evolution using the building information.

The main objective of ALIOTH is the decrease of reaction and evacuation time, acting in real time during an emergency situation.

Alioth®
Smart Evacuation System

Interconnectivity

BMS

Fire alarm systems

Security Systems

Are you **sure** it's the **right** way?

How does it work?

Verification

Video Surveillance

Human Validation

Emergency Verification

Alioth consists of three parts: a brain, input information and output elements. The intelligent software is the brain, with an adaptive algorithm which evaluates in real time all the input information

Input information comes to the system from different places: data collection from smart sensors, fire protection and alarms control units, video monitoring, BMS (Building Management System), etc

ALIOTH evaluates the risk and decides when there is a real problem to warn the security or actuate independently.

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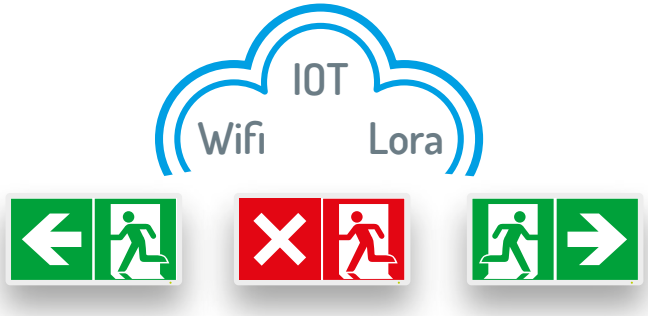
CO
What if the danger were there?

Signaling and Evacuation Guidance



Adaptive Intelligent Signaling

ALIOTH APP

Evacuation Warning · Evacuation Route
using Indoor Positioning System

Acoustic signalling

Help Blind People

Smart Evacuation System

Evacuation Management Software with Intelligent Algorithm

Real Time Evaluation of Evacuation Routes Status

· Installation drawings with evacuation routes and components location (multisensors, adaptive exit signs, extinguishers, etc.)
· Real time risk identification and location on the drawings
· Monitoring of system components status (adaptive exit signs, fire protection groups, multisensors, etc.)
· Real time evacuation routes updating

Data Acquisition

Monitoring of Evacuation Routes Data Parameters

Pressure

Temperature

Humidity

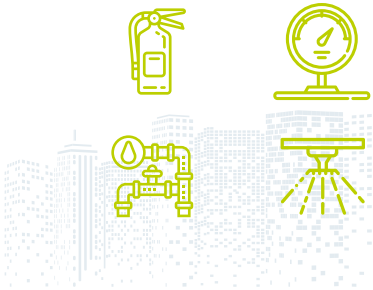
Light

Motion Sensor

CO

Carbon Monoxide

Fire Protection Groups Control



Video Monitoring

Who can notify?

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www.zemper.com

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Signaling and Evacuation Guidance

IOT
Wifi Lora

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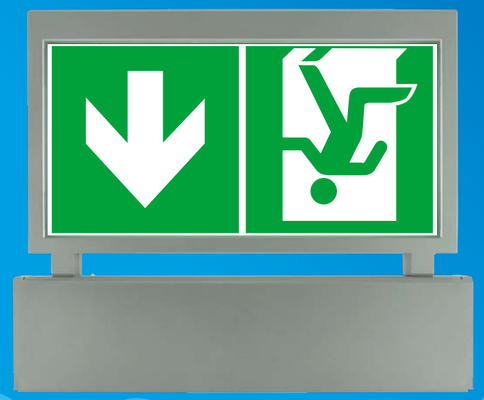

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