

# AI-IoT (INCIDENT RESPONSE NOTIFICATION SYSTEM)

## SYSTEM DATA SHEET – REV 0

### 1. INTRODUCTION AND SYSTEM OVERVIEW

Rescue 365 is an advanced fire emergency solution, utilizing AI and IoT technologies for incident response notifications. It enables real-time monitoring, captures fire events, maps devices using GIS, and supports directional AR-assisted evacuation. The system is compatible with all addressable fire alarm panels through protocol gateways and cloud APIs, ensuring seamless integration. Rescue 365 is an add-on intelligence and notification platform designed to enhance existing fire safety systems by improving situational awareness, reducing response time, and guiding safe evacuation. It does not replace, modify, interfere with, or supersede any certified Fire Alarm Panel (FAP) or life safety system.

#### Patented Concept

IncidentResponse Notification System, is a utility patent designed to revolutionize safety and emergency response systems worldwide. Applicable across multipledomains, including:

Centralized Control Stations (e.g., Drainage Networks, Water Networks, Chemical Networks); Guiding Systems; Border Security Fences; Road & Vehicle Safety; Fire Incident Notification Systems; Metro Networks and more!

It is based on the published US Patent US 2025/0029196.

### 2. KEY SYSTEM FEATURES

- Real time fire alarm event capture at device level
- GIS and Floor wise fire visualization
- Real time fire spread monitoring
- Verified classified incidents
- Monitoring system with pin point the fire location.
- Instant notification system
- Exact source identification
- Synchronization between FAP → Cloud → App
- BLE based AR navigation for occupants and responders
- Detecting fire spread
- Live NFPA advisory retrieval using Perplexity
- Fault analytics, device sensitivity monitoring system
- Multi tower scalability
- Optional blockchain usage / Perplexity
- Cloud dashboard for Civil Defense and Facility Teams
- Analysis of Past Fire data using AI
- Expendable to Gas leak, Chemical leak detection, Optimize Garbage collection etc

### 3. CONNECTIONS

System Category	AI-IoT Emergency Notification & Evacuation System ( Incident Response Notification System)
Panel Integration	All Addressable Panels FAPs (EST3, Notifier, Siemens, Honeywell, Cooper, etc)
Gateways Supported	Photoconvert Series (PG350/PG702X), FieldServer FS Series
Connectivity	RS232, RS485, Ethernet, 4G/5G Router/ Module
Cloud Protocols	BACnet/IP, MQTT, HTTPS/JSON, XML
Mobile Technologies	IOS, Android, BLE Beacons, AR Core/ARKit
Data Security	TLS 1.2+, Encrypted Tokens
Max Point Capacity	2500+, 2000, 1000, 500+ points (Field Server / Proto convert)
UPS	Independent UPS powering system
GIS Mapping	Floor wise device and zone mapping and general
AI Capabilities	Fire spread prediction, anomaly detection, trend forecasting

### 4. COMMUNICATION PROTOCOLS – DETAILED

- BACnet/IP (Binary Input, Binary Value, Analog Input, Life Safety Points)
- MQTT: Hierarchical topic-based publishing for events and device states
- JSON/HTTPS: Direct cloud ingestion through encrypted endpoints
- XML API: Optional for legacy systems
- Delta reporting (event only transmission)
- Timestamp synchronization via NTP/ Gateway Clock

## 5. SYSTEM ARCHITECTURE / NETWORK & POWER OVERVIEW

The convergence of AI, IoT, and Blockchain creates a secure, intelligent, and autonomous digital ecosystem. IoT acts as the data collection, AI serves as the data analysis/decisions and blockchain acts as the trusted, secure memory (decentralized storage). Together, they enable automated, tamper-proof, and intelligent operations in supply chain, healthcare, and industrial applications.



## 6. Block chain, Augmented Reality, AI, Perplexity, (AI, IOT and Blockchain)

Core Technologies in the Rescue 365 System

### 1. Blockchain – Secure and Tamper-Proof Incident Records

Rescue 365 uses blockchain technology to store critical incident data in secure, time-stamped blocks distributed across multiple servers. Each alarm event, sensor activation, and system response is recorded in an immutable ledger, ensuring that records cannot be altered after creation. This provides a transparent and verifiable audit trail for investigators, insurers, and regulatory authorities. The distributed architecture improves data resilience and cybersecurity, ensuring incident evidence is preserved even if one server fails. Blockchain therefore strengthens trust, compliance, and accountability in emergency event documentation.

### 2. Augmented Reality – Intelligent Evacuation Guidance

Rescue 365 integrates Augmented Reality (AR) to provide real-time evacuation guidance to building occupants. Using Bluetooth beacons and indoor positioning, the system identifies each user's location inside the building. Proprietary algorithms then calculate the safest and shortest evacuation path dynamically based on fire origin, smoke spread, and blocked routes. Each individual may receive different directions depending on their location and risk exposure. AR visual overlays guide occupants toward exits or safe zones, significantly improving evacuation efficiency and reducing panic during emergencies.

### 3. Artificial Intelligence – Predictive Analysis and Decision Support

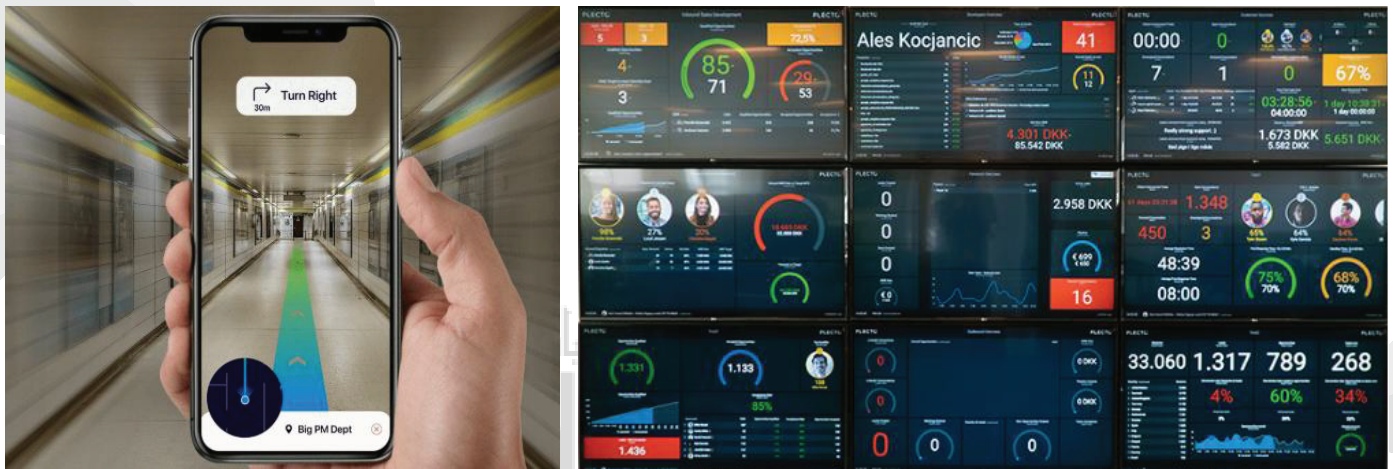
Artificial Intelligence powers the analytical core of Rescue 365. AI models analyze historical fire incidents, building safety data, and live sensor inputs to predict potential risks and support faster decision-making. The system can classify incidents, recommend response strategies, and simulate evacuation scenarios based on real-time conditions. AI also enables a knowledge-based Q&A interface for fire safety information within the building. Advanced analytics generate reports, risk insights, and compliance documentation, helping improve overall fire safety management.

#### 4. Perplexity – Live Data and Regulatory Intelligence

Rescue 365 integrates Perplexity-based live intelligence to access real-time external information and regulatory updates. The system can retrieve the latest fire safety codes (NFPA, QCS, Civil Defence), building automation standards, and manufacturer integration manuals. During live incidents, it can also incorporate external context such as weather, traffic conditions, or nearby alerts. This capability enhances decision-making by combining internal building data with current external information. As a result, Rescue 365 remains continuously aligned with evolving safety regulations and operational conditions.

#### 5. e) AI, IOT and Blockchain:

AI, IoT, and Blockchain together form a secure, intelligent, and self-managing digital environment. In this ecosystem, IoT devices collect data, AI interprets and makes decisions based on that data, and Blockchain provides a reliable, decentralized record of all transactions. This integration allows for automated, tamper-resistant, and smart processes across industries such as supply chain, healthcare, and industrial operations.



#### 7. WARRANTY

We guarantee the system for one year from the date of installation or activation, with maintenance provided annually or monthly as needed. There will be no disruption to the existing system; our solution is an add-on that fully preserves all requirements of FAPs and the existing systems.

#### 8. INTEGRATION WITH ALL ADDRESSABLE FIRE ALARM PANELS (FAPS) IS SUPPORTED

Rescue 365 is designed to seamlessly integrate with all types of addressable Fire Alarm Panels (FAPs). The platform is compatible with a wide array of brands and communication protocols, ensuring dependable connectivity and smooth interoperability across different systems. Integration has been verified for every panel and protocol listed in the product specifications. Below, you'll find examples of FAP brands and their supported protocols. Moreover, Rescue 365 can adapt to connect with any addressable FAP, including those utilizing unique or custom protocols.

Fire Panel / Brand	Supported Protocol(s)	Integration Possible
Notifier (ONYX, FireWarden)	FlashScan	Yes
Siemens (Desigo, Cerberus PRO)	FDnet, BACnet	Yes
Honeywell (Fire-Lite, Gamewell, FCI)	CLIP, FlashScan	Yes
Potter (IPA Series)	P-Link, SLC	Yes
Zeta (ZX Series)	Zeta Protocol	Yes
GST (GST100, GST5000)	GST Protocol	Yes
Advanced (MxPro 5, Axis EN)	Apollo, Hochiki, Argus	Yes
Morley-IAS (ZXSe, DXc)	FlashScan	Yes
Hochiki (HCP, FIREscape)	ESP	Yes
Apollo (XP95, Discovery)	Apollo Protocols	Yes
Tyco (Simplex, Zettler)	MAPNET II, MZX	Yes
EST (EST3, EST4)	Signature Protocol	Yes
Ravel (RE-2558)	Ravel Protocol	Yes
Inim (SmartLoop)	Inim Protocol	Yes
Bosch	BOSCH Protocol	Yes
Gent (by Honeywell)	Honeywell Protocol	Yes
VES (Voice Evacuation Systems)	VES Protocol	Yes
Apollo	Apollo XP95, Discovery, Soteria	Yes
EST (Edwards)	Signature Loop Protocol	Yes
Honeywell	FlashScan, CLIP	Yes
Simplex (by Tyco)	MAPNET II, IDNet	Yes
GST (by Carrier)	GST Protocol	Yes
Esser (by Honeywell)	ESSERbus	Yes
Mircom	MIX-4000	Yes
Morley (by Honeywell)	CLIP, FlashScan	Yes
Cooper Safety (Eaton)	Cooper Protocol	Yes
Protec	Protec Protocol	Yes
Menvier	Menvier Protocol	Yes
Hochiki	ESP Protocol	Yes
Axis (by Advanced)	Axis Protocol	Yes
Secutron	MAP Protocol	Yes
Advanced	Apollo, Hochiki	Yes
Gamewell (by Honeywell)	Honeywell Protocol	Yes
System Sensor (by Honeywell)	CLIP, FlashScan	Yes
Fire-Lite Alarms (Honeywell)	CLIP, FlashScan	Yes
VESDA (by Xtralis/Honeywell)	Aspirating Detectors - VLP/VLS	Yes
Kentec	Apollo & Hochiki	Yes
Cooper (Eaton)	Eaton Loop	Yes
Context Plus	Apollo, Hochiki Compatible	Yes

## 9. ANNEXURES

Some Reputed Brands we can connect

