

Environmental Monitoring and Asset Protection

Keep assets safe and secure with the latest IoT technology



eMAP from Cascade3d is a powerful analytics platform that monitors conditions within properties and storage facilities and keeps you in control. Featuring live updates, personalised alerts and long term trend analysis, the system is designed to be used anywhere from libraries to law firms.

It's much more than a simple alarm system – we use the very latest IoT and AI technology to monitor and report on conditions, access and issues – keeping your assets safe and secure.

How does eMAP work?

Carefully positioned digital devices and sensors collect data and stream it back to our secure servers via intelligent gateways. The sensors can detect movement, smoke, temperature changes, light levels, vibration, humidity, flooding and carbon monoxide.

- **eMAP** learns what is 'correct' for each location and creates a **unique profile**. Access can be customised for each user and remains secure
- **An alert is triggered** if conditions or behaviour deviate from what the system expects e.g. a sudden change in temperature, doors opening or vibrations when the building should be empty and so on. This is unique to each location
- Alerts can be sent to the **Cascade3d App** or via email or text or direct to a centralised call centre
- Data can be **aggregated across multiple settings** – perfect for landlords and property managers
- **eMAP** works in **real time**, with everything available everywhere on tablets, smartphones, laptops and PCs
- Information is displayed in **dashboard format** with easy-to-use reports, graphs and charts and can be integrated into your existing management system through an **API**
- Suitable for **long term or short term** property monitoring.

Environmental checks made easy

Smart sensors continually monitor the environment and record changes in the Cascade3d platform. Automatic sensing reduces the need for staff to spend time filling in forms. The system checks and records open windows, locked doors, the temperature of fridges, freezers, rooms, hot water tanks and pipes, and also monitors humidity and light levels. This is perfect for managing properties while unoccupied, e.g. holiday homes and rental properties.

Wireless smart sensors can be installed in minutes to turn on lighting automatically when a person enters the room. Track LED lighting can provide an illuminated pathway when the sensor mats and motion detectors are activated.

eMAP can alert maintenance teams about environmental and safety issues preventing issues and potential claims. For example, low levels of light may cause falls in areas that are poorly lit.

The latest technology

The Cascade3d **eMAP** platform is built using an IoT Intelligent Gateway that links a range of ambient sensors, and then streams near real-time data to the Cascade3d cloud analytics backend. The behaviour analytics and AI models alert to changes in the environment and allow managers to make fast and effective decisions utilising API integration in the cloud.

eMAP is designed to be open, secure and scalable. From the edge IoT gateway to the backend servers, our analytics platform has been built using industry standard products and protocols and embedded reliability.

Where can it be used?

eMAP is suitable for a wide range of settings including:

- Residential properties
- Holiday lets and Airbnb
- Hospitals
- Museums & theatres
- Warehouses
- Law firms
- Universities/colleges
- Libraries
- Military facilities
- Commercial properties



A safe pair of hands

Please contact us on **01285 425690** or email contact-us@cascade3d.com

Cascade3d has been at the forefront of IoT technology, performance management and data analytics for over 21 years. We've helped hundreds of organisations to monitor, manage and process their data.

Environmental monitoring and control is not just a one off activity, it's an ongoing process and needs a safe pair of hands – we are here to help.

Cascade3d is an IoT and data analytics company based in The Cotswolds, providing database-driven monitoring solutions for businesses in the UK, Australia and India.

Visit www.cascade3d.com to find out more.
