

Making Aviation Safer

Exonaut®: An integrated solution for quality, risk, incident & crisis management



4C STRATEGIES

Background

The aviation industry is facing an increasing array of safety and security threats, regulatory requirements, complex system interdependencies and operational demands. More and more stakeholders are becoming involved to meet these challenges, often resulting in fragmented and time-consuming processes. Rigid and silo-based information infrastructures are unable to respond to the need for an integrated, mobile and easy-to-use solution for quality, risk, incident, and crisis management. Even with these challenges, airports and airlines have the potential to become industry leaders in leveraging existing technology to improve information sharing, inform decision-making, and streamline operations.

Emerging Challenges in the Aviation Sector

Compliance

National, regional and international authorities continue to increase their compliance obligations for airports, airlines and the larger aviation industry. For example, the European Aviation Safety Agency (EASA) has introduced extensive incident reporting requirements in order for European airports to receive and maintain their certification status. Incident reporting remains a largely manual and time-consuming process, pointing to the need for an integrated, mobile-enabled system to efficiently capture, visualise, analyse and report safety, security and inspection data for internal and external audiences.

Crisis Management

In times of crisis, airports often have the relevant plans and policies in place, but lack the mobile crisis room to accompany it. With a mounting number of stakeholders involved in managing complex airport operations, there is an increasing need for a mobile solution to improve situational awareness and minimise disruptions during a crisis. In these time-critical situations, airport personnel must be able to communicate with the operations center, track each other's locations using GPS, and access plans to aid crisis response and recovery.

Risk Management

Many airlines and airports continue to rely on Microsoft Office applications or paper-based systems for safety, security, environmental, financial and compliance risk assessments. Stakeholders are unable to easily identify, manage and visualise risks in real-time and across operational areas, resulting in an inefficient allocation of time, resources and investments.

Exonaut® Airport Solutions

4C Strategies is one of the world's leading providers of risk and crisis management solutions for the public, private and military sectors. Combining expertise with an innovative approach, our advisory services and Exonaut® software suite help you to build, verify and track your readiness capabilities.

In the aviation sector, Exonaut® provides scalable software solutions for training, quality assurance, incident, risk and crisis management. By integrating a mobile app, dynamic mapping tool, dashboard status overview and other features, Exonaut® enables your workforce – whether on or off-site – to submit and access the relevant, real-time data which drives informed decision making. 4C Strategies helps Copenhagen Airport, Virgin Atlantic and Thomas Cook, amongst others, to navigate uncertainty and deliver on their strategic, operational and financial objectives.





Executive Dashboard Overview



Airport Operations Data from Multiple Sources



Email Survey



Mobile App



Control Programs



API's

1. Exonaut® Airport Safety and Operations System (ASOS)

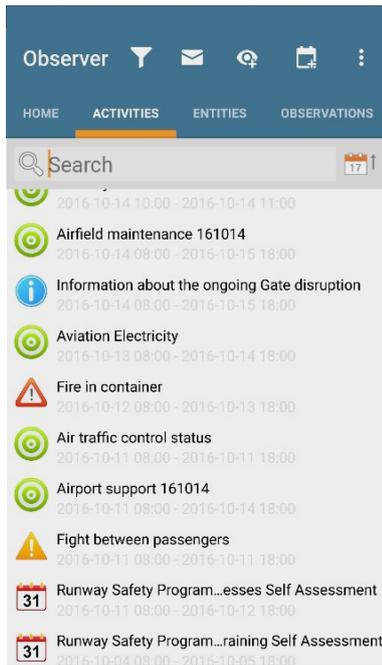
The Exonaut® ASOS solution is an enterprise-wide platform for stakeholders to plan, visualise and report upon the status of airport activities and evaluate performance across their internal and external regulatory requirements. Exonaut® ASOS integrates the management of daily operations, safety activities, quality assurance, task allocation and training activities into a single system. Data is captured from airport personnel or control programs via the mobile Observer app, email surveys and external API's, verified centrally, and presented in custom dashboards to the operations center. The same easy-to-use system is used for day-to-day activities and during a crisis, ensuring a smooth transition to emergency situations and building a broader safety, security and resilience culture.

2. Exonaut® Incident and Crisis Manager (ICM)

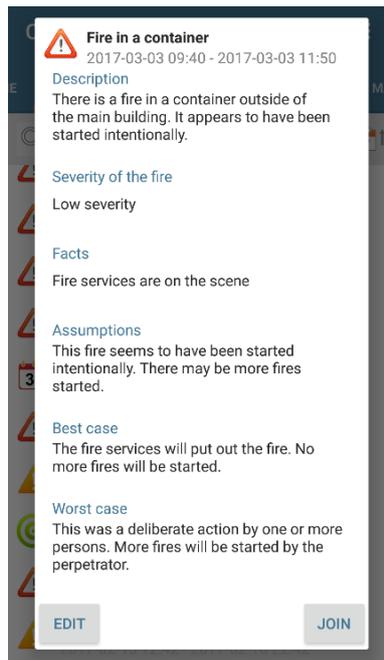
ICM is a proven incident and crisis response tool, which simplifies daily reporting and informs decision-making during a crisis. The Exonaut® Observer app, mobile crisis room, automatic notification system, dynamic map view and customisable dashboards of airport activities ensures that the relevant information is available 24/7 to those who need it, whether on or off site. Exonaut® also turns incident logs into an audit trail for after-action review and facilitates reporting requirements for national and regional authorities. Customisable incident and crisis reports are generated automatically for stakeholders, meetings and regulatory agencies.



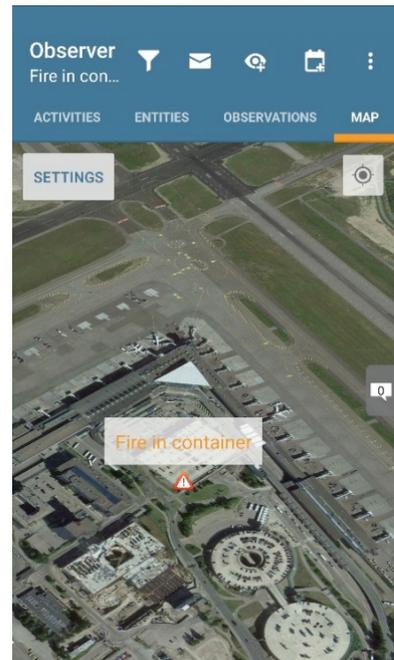
Mobile observer app



Activity overview



Incident info



Dynamic map view

3. Exonaut® Risk Manager

Exonaut® Risk Manager is a user-friendly enterprise risk management tool for airports and airlines, in accordance with ISO 31000. Exonaut® provides stakeholders with a real-time helicopter view of critical risks and a drill down capability for a detailed review of risk status, treatment status and control effectiveness. This enables decision-makers to prioritise limited time, resource and investment to where it is most required. By tracking tasks, responsibilities and risks through Exonaut®, risk managers are also provided with a digital audit trail to interrogate results and ensure best practice. Exonaut®'s current use by airports and airlines includes the implementation of risk management frameworks, safety risk assessments and end-to-end ERM software solutions.

