

# AIRPORT

Cellular Airport Equipment Management Solution

## Motorised and non-motorised assets

Ctrack's Airport Solution has been developed to include motorized equipment and assets as well as non-motorized GSE such as passenger, crew and engineer stairs. This holistic solution has been achieved by partnering with GSEtrack to provide the non-motorized component of the solution.

GSEtrack uses advanced radio frequency (RF) technology, and does not require any network installation or communication costs.

The combination is a truly unique embedded solution which provides GSE service providers visibility of motorized and non-motorized equipment and assets on one front end SaaS platform. This can be accessed by laptop or computer, as well as through a mobile app on site.



Geo-location of assets with access control



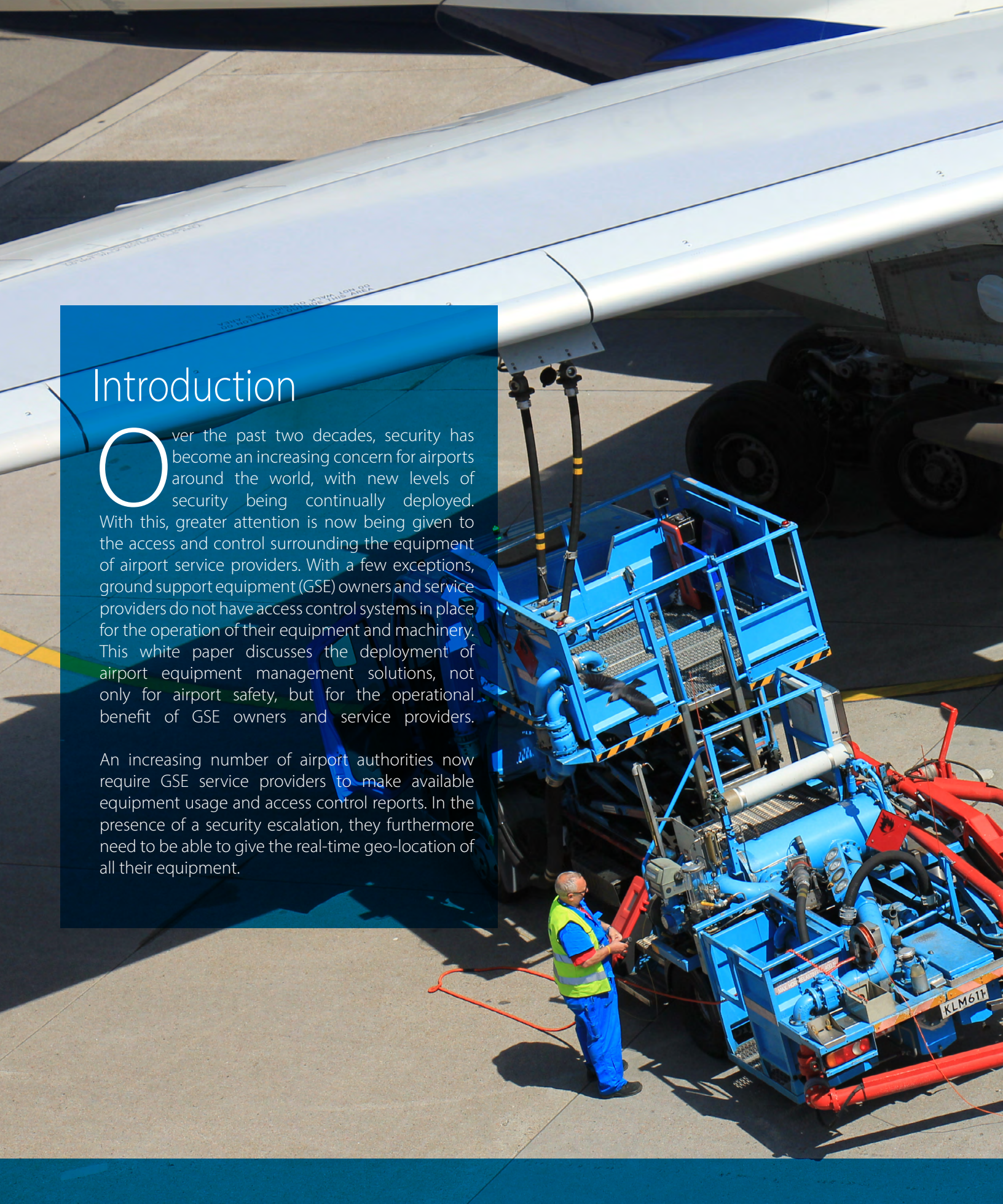
Equipment Access Control  
Systems for Enhanced  
Airport Safety and Security



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## Introduction

Over the past two decades, security has become an increasing concern for airports around the world, with new levels of security being continually deployed. With this, greater attention is now being given to the access and control surrounding the equipment of airport service providers. With a few exceptions, ground support equipment (GSE) owners and service providers do not have access control systems in place for the operation of their equipment and machinery. This white paper discusses the deployment of airport equipment management solutions, not only for airport safety, but for the operational benefit of GSE owners and service providers.

An increasing number of airport authorities now require GSE service providers to make available equipment usage and access control reports. In the presence of a security escalation, they furthermore need to be able to give the real-time geo-location of all their equipment.

## The Challenge

GSE service providers and owners need to keep track of their equipment and the utilization thereof in order to meet airport authority requirements and manage and control their own operations. Understanding the operational hours of equipment inclusive of the time stamps and geo-location is key to realizing operational efficiency improvements. Being able to keep track of machine operational hours furthermore allows for maintenance intervals to be predicated and scheduled so as to avoid service disruptions. GSE service providers are not only looking for historical reports for real-time usage, but also need to create predictive usage models for their equipment.

Workplace incidents are also a challenge, as any increase in handling volume is usually followed by an increase in these type of incidents. GSE service providers need better asset monitoring and management to reduce the number of workplace incidents and enhance the overall safety of their personnel. With historical reports, debriefings on safety events can be properly backed up.

GSE service providers need more automation in order to meet these requirements.

## Airport Equipment Management Solution

**Ctrack's Airport Solution gives GSE service providers a GPS-based airport equipment management solution that provides controlled access to their equipment as well as real-time visibility through a web-based software-as-a-service (SaaS) platform.**

This solution, they are able to meet the demands of airport authorities whilst improving their service to their clients, the air service providers. These clients are often sophisticated organizations including logistic companies, passenger, baggage handlers and maintenance and catering providers. They expect high accuracy in administrative processes, as well as the ability to select additional services such as visibility of equipment usage, access control and geo-location.

With a planning and visibility tool, GSE service providers always know who is using what, when and where. It gives them the ability to provide exact invoices based on the usage per client, per cost center and even per individual. This saves time on administrative tasks that were historically carried out manually.

## Solution Provides

- Ctrack Fleet Management Solution**
- Access Control Airport Software**
- Standard & ruggedized RFID Reader**
- Remote Immobilizer**
- Battery Control System**
- Fuel management system**
- API with billing engine**

Cellular modules are used that transmit data from anywhere for a truly untethered connection to all vehicles and assets which allows communication to vital statistics of the asset and control over asset functionality. Carrier networks extend to all parts of the airport which allows for constant monitoring and control.

## Benefits

### **Saving time**

Reducing labor costs

### **Saving money**

Savings on maintenance and incorrect service schedules

### **Saving fuel**

Preventing assets to run into lower fuel levels

### **Improved efficiency**

Real-time visibility leading to better planning and improved fleet operations

### **Increased awareness**

Data and information obtained leads to improved work processes and creativity

### **Financial accuracy**

Accurate billing processes by keeping record of usage and access control