


# Aviation Solutions

Simplifying land & airside airport management & services.

- A better customer experience
- Improved passenger throughput
- Increased workforce and workflow agility


## Flexible, Integrated Communications & Tracking



Communications



Asset & Vehicle Tracking



Evidence Capture



## Foresolutions & Aviation

Welcome to Foresolutions, your trusted technology partner for the aviation sector.

As the aviation industry works hard to overcome the enormous challenges it's had to face during recent times we've also been working hard on our communication and tracking solutions to provide a new level of operational efficiency for airports and aviation service providers.

As you try to make sure that all your resources are being used optimally, we strive to deliver technology to help you achieve the following core objectives in your operation:

- Increased passenger throughput
- Increase workforce and workflow agility
- Limit damage liability
- Decrease flight turnaround times

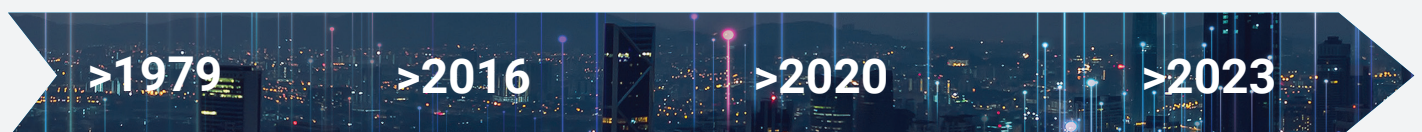


## Our Team

In 2020, we acquired Asset Fusion, a business built by two highly experienced individuals with extensive experience in the aviation sector, out of a need identified in their old roles within an aviation communications provider that was simply not being met: **fully customised and integrated communications and tracking on a single platform.**

Those individuals and the technology they developed are now part of our directorship and technological solutions development team. After a recent successful deployment of a bespoke cellular radio communications and tracking solution for a large London airport ground handling provider, we are ready to help you achieve your goals to lighten the load and extra pressures you've had to deal with in the current climate.

## Established, yet innovative partner



**Foresolutions**  
Radio, Events,  
Business Comms,  
Telematics.



**Asset Fusion**  
IoT and Tracking  
platform specialist.



**Foresolutions**  
Asset Fusion  
merged with long  
standing business  
Foresolutions.



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## Connected Business: Working across land and airside to keep your people connected, your assets in sight and your operations on schedule.



**Introducing Foretrack Connect:** we have developed and offer a platform that allows you to manage all your assets in one place, with seamless integration into existing IT Systems.

*An end to end managed service. Affordable monthly payment packages, customer support and swift exchanges of faulty equipment.*

*Off the shelf and bespoke software packages that allow intuitive use of the technologies we offer.*



## Technology at work: The outcomes of improving the technology you use to run your ground handling operations.



Ensuring the passenger moves through the airport in an enjoyable and seamless way is crucial to customer satisfaction, from a speedy check-in to boarding and departing on time, to collecting their belongings quickly at their destination.

Effective communication between the ground staff, knowing the location of your assets and a single, centralised gateway to managing workflows are all vital components that Foresolutions offers that help you solve these challenges. We'll tailor the communications devices, connectivity and application so your team gets the information they need in a timely, reliable manner.

Foresolutions offers a suite of products and propositions that can improve the workflow agility of airport ground staff. These include:

- Cost effective, robust and reliable communications solutions. Our Push to Talk Over Cellular (PTToC) devices utilise the surrounding 4/5G mobile and WiFi networks at a fraction of the cost of traditional, private network systems.
- Asset tracking of air side equipment.
- Dashcams and bodycams, offering video capture from vehicles or individuals to record unexpected events and mitigate damage liability.



So much goes on at the airport during the changeover process, and accidents do happen. Being able to capture the situation is critical in ensuring the right outcome is reached after an investigation. No one wants to be unfairly accused of damage to an aircraft or equipment that's occurred during the period you were responsible for, especially when you know it wasn't your fault.

Our camera solutions are here to prevent that situation happening by providing robust evidence capture that can be streamed in real time and used to prove your innocence and mitigate any unfair, costly insurance claims.

The end game for everyone is to get turnover time reduced to enable more planes to take off on time. To do this all the teams involved must operate seamlessly so that vital take off slots aren't missed.

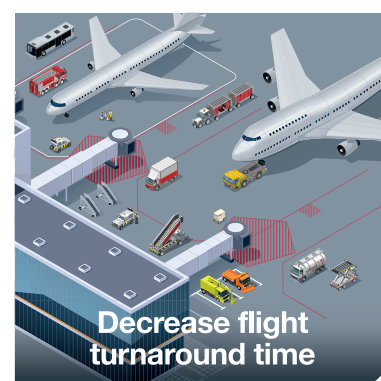
### Barriers to this often include:

- Old analogue radio networks which can fail for mission critical comms to enable take-off
- Atmospheric conditions affecting networks

**We can offer a range of integrated digital or cellular voice and camera technology on one robust device.**

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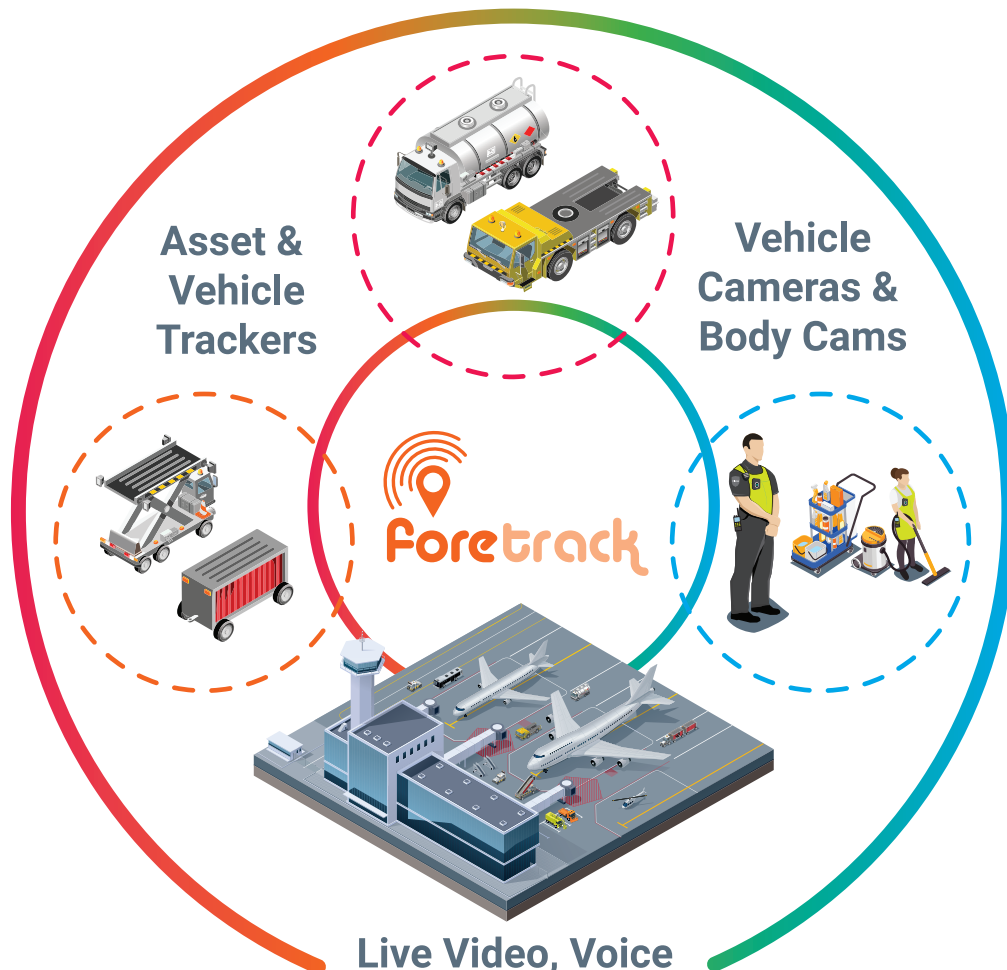
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**[www.foresolutions.co.uk](http://www.foresolutions.co.uk)**



**Everything Together:** Our solution enables you to keep track of vehicles, assets and people through one platform.



#### Tracker & MDVR Camera Options

We can provide a range of devices that offer GPS Tracking, BLE Tracking, WiFi Tracking, Satellite Tracking, 5G Tracking

2G, 3G, 4G Tracking, IoT Tracking, Self Install, Battery Powered, Low Power WAN, Sigfox Tracking. Our vehicle cameras come with multi port options for different views and are suitable for providing footage from all your fixed and motorised assets that make up your landside and airside operations.

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## Push To Talk over Cellular (PTToC/PoC) Radios

We the latest communication technology that keeps you connected at those critical moments. Choose from a range of robust Push-To-Talk over Cellular (PTToC) technology that uses mobile and WiFi networks to provide a broader coverage area without the need for expensive infrastructure.



Sonim XP8 Ultra-Rugged  
PTToC Smartphone



Hytera VM 580d Body  
Worn Camera with PTTToC



Hytera PNC 550  
PTToC Radio

### Understanding the differences between a digital radio network & PTTToC

#### Traditional Two-Way Radio vs Push To Talk Over Cellular (PTToC)

The two main options for your core communications are traditional two-way radio or newer PTTToC tech. The main difference is that radio uses a closed network using repeaters to provide coverage, whilst PTTToC uses devices with a SIM card that uses your mobile network or a local WiFi network to provide connectivity. Both have their pros and cons.

##### Coverage

Two-way radio can work point to point with themselves or for wider area networks will need their own repeater infrastructure. With PTTToC the reach could be national and even international, but only if there is network or WiFi coverage.

##### Major Incidents

Radio networks generally stay working, mobile networks can get saturated or shut down by the emergency services, however if you have a WiFi signal this will act as a backup.

##### Single Point of Failure

Radio repeaters can fail, which then means the whole system is down. Possible failures on PTTToC could be mobile coverage or problems with the WiFi network, but you are generally less likely to have a single point of failure.

##### Apps

PTToC devices do come with the ability to use most Apps your workforce may need to access. This can still be done on a higher tech radio system, but the functionality works particularly well with PTTToC.

## To Upgrade or not?

### I've already got a traditional radio system, should I upgrade to PTTToC?

Until recent years there was only really the choice between two-way radio & mobile, with the key concern being analogue to digital migration. We now have Push To Talk Over Cellular (PTToC) that's joined the party. These solutions now enable you to combine advanced smartphone technology with many two-way radio features over 3G, 4G, 5G or WiFi networks, using your existing Android or IOS mobile phone if you wish, or an alternative compatible device such as the Hytera VM580d.

### Phased Migration Paths

You don't have to change everything at once. For customers who already have a digital radio network we can incorporate PTTToC devices by adding in a gateway that allows communications between the digital radios and cellular devices. This is a great way to try the newer technology without the outlay of replacing all your kit at once, or use PTTToC to extend your coverage to another site where expanding the radio network would not be viable.

As well as the key comparisons we made earlier, here are a few extra features associated with PTTToC:

- **Hardware warranty** is an important consideration. They can range from 12-36 months on kit purchased outright, however leasing or contracting your hardware as part of your business communications deal often provides inclusive warranty as long as you are in contract. PTTToC devices generally come with longer warranties.
- With PTTToC you can have **one device** that acts as a mobile phone and radio using **cellular and WiFi connectivity**, whereas with radio you may still need company mobiles for some employees.
- Easy to set up and no Ofcom licence requirements.
- No limits to an area or site, it can be used wherever there is 3G, 4G/LTE, 5G or Wi-Fi coverage
- Users can have one-to-one or one-to-many calls.





## Asset Tracking Solutions

Benefit from better operational efficiency with your motorised and non motorised assets. We have a range of different trackers that offer real-time visibility of all your airside assets so you can get things where they need to be promptly and safely.

### Asset & Vehicle Tracking

Our bespoke tracking packages are powered by innovative hardware, intelligent software and a knowledgeable team, allowing you to not only make the most informed choice for your business, but remain in control thanks to our dedicated in-house support.

Cut admin, get greater control and make the key savings that reflect on your bottom line.

### Foretrack Connect Portal

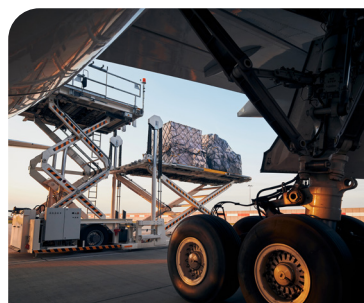
Real-time asset status data will totally transform your business operations. You'll be set up with access to our portal where all your custom reports and alerts will be configured as part of our set-up service. Login profiles tailored to your team's roles and requirements so you can slot the system seamlessly into your routine.

**Know where your fuel trucks, push back tugs, baggage trucks & dollies are at any one time**

**Valuable usage data at the touch of a button, all stored securely in the cloud**

**Save hours of time with automated tracking to enable slick operations & faster plane turnaround times**

**Enjoy cost savings & increased customer satisfaction through better planning & asset management**



## Evidence Capture - Camera Tracking

Capturing footage from vehicle and motorised asset mounted cameras provides an accurate witness which can give irrefutable evidence in the case of false claims, damage liability allegations and vandalism.

A tried and tested tool to assist airport ground handlers in managing their fleet and to lower risk of client dissatisfaction and financial penalty.



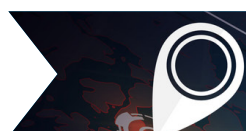
## Camera Solutions: Product Features & Benefits

Incidents and insurance claims are time-consuming issues for all involved. Using camera solutions within your operations takes away the false claims, ifs and whens.

Camera solutions give you the solid evidence you need to protect your vehicles, assets, staff and business.

Installing a camera solution into any operation will also benefit the company by encouraging improved operator behaviour and best practice whilst carrying out tasks. This in turn leads to less damage and fewer incidents.

- What happened before, during & after an incident?
- No more 50/50 claims or conflicting reports of events
- Reduce stress & provide peace of mind for directors, airport staff and contractors
- Asset location & real time live tracking
- Audio capability
- Driving style (speed, acceleration, braking, and steering)
- Multiple camera options
- Wide angle lens to see the bigger picture
- Stream data remotely via 4G & 5G
- Visibility of your loads



All-in-one design, easy for installation and maintenance

Managed seamlessly through our Foretrack Connect platform

## Our Full HD All-In-One Dashcam Features

- Wide angle 1080p video recording and streaming to provide driver's view of the road
- Support 5 seconds of video recording in abnormal power shutdown or extreme accidents condition
- Easy configuration and viewing via mobile App
- Dual TF cards for sufficient storage, each TF supports up to 256GB
- One-key click for SOS alarm and video upload
- Built-in LTE, Wi-Fi, GPS modules
- Built-in mic and speaker for two-way communications
- Self-inspection for device health check
- Extendable for max. 4 cameras totally



## Our solutions are designed to improve business performance whilst fitting easily into your operations

Our bespoke packages are powered by innovative hardware, intelligent software and a knowledgeable team, allowing you to not only make the most informed choice for your business, but remain in control thanks to our dedicated in-house support.

### Our promises

- Super quick install within 5 days
- Money back 100% satisfaction guarantee
- Lifetime hardware warranty
- Flexible contracts

Our simple approach will get you connected quickly and easily



### Initial no-obligation intro call

We'll ask you some questions about your business and key priorities to help us find the right solutions.



### Personalised Proposal

We'll send you an outline proposal of a solution that addresses your key pain points pitched at your specified user profiles.



### Set-up, despatch & connect

Once the proposal is agreed we'll progress with the installation, software set-up and any customisations.

## The Art of the Possible...



### Foresolutions Technologies

- Push-To-Talk Over Cellular, Tracking, Dashcams & Data Capture Application
- Push-To-Talk Over Cellular, Tracking, Dashcams, In-Cab Tablet & Data Capture Application
- Push-To-Talk Over Cellular, Tracking, Dashcams, In-Cab Tablet, Intercom, Wireless Headsets & Data Capture Application

- Push-To-Talk Over Cellular, Bodycams, Lone-worker & Data Capture Application
- Non-Motorised Tracking
- Push-To-Talk Over Cellular, Non-Motorised tracking & Data Capture Application

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## Getting started with a bespoke solution

### Your trusted aviation technology partner.

To really get the most out of the technology, we recommend our Accelerator service where you get to have our experts set up a proof of concept that takes all your objectives into account.

Our consultative and practical approach to finding the right solution will see you up and running quickly and easily.

Our proven, step by step process enables us to work collaboratively with your teams to get it right first time.



We work with you to get you on the right path to your ideal solution



### Accelerator Service & Demo Kits

A simple process to work with our experts and explore the opportunities and benefits to your organisation.



### Instant Kits & Foretrack Connect SaaS

Select the right devices and options and subscribe to our extremely competitive off-the-shelf cloud solution.



### A Custom Built-For-You Solution

Fast track the creation of a custom solution using our IoT platform and innovate open Web API.

## Ways we can help you to achieve your goals

### Visit Our Demo Showcase

#### Bring Ideas and Concepts To Life

Visit our Demonstration Showcase and see many of the concepts working in real time.

### Accelerator Service and Demo Kits

#### A Service To Help Clients Decide

A simple process to work with our experts explore the opportunities and benefits to your organisation.

### Foretrack Connect

#### Move Forward With Our SaaS Offering

Select the right devices and options and subscribe to our extremely competitive off-the-shelf cloud solution.

### Built For You

#### A Custom Solution Built For You

Fast track the creation of a custom solution using our IoT platform and innovate open Web API.

### Projects and Solutions

#### Comprehensive Project Delivery

Leverage Project and Solution delivery expertise to deliver Business Communication Tracking and IoT Solutions.



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