

CASE STUDY TRUCK AND FLEET SECURITY



ABOUT AET INT LTD

Founded in 2013, AET is a startup security company specialising in road freight protection. Its founder, Barry Southon, saw the rising risk of freight crime across the UK and Europe and realised that traditional security methods leave drivers and their cargo vulnerable.

Fueled by market forces like increased online shopping, the road-based freight and logistics sector has grown exponentially. Alongside this growth comes a rise in road freight crime, resulting in the theft of goods, vehicle damage and illegal border security bypasses.

AET provides road freight companies with simple, cost-effective IoT truck and fleet security solutions that detect and deter theft. In doing so, it protects trucks, drivers and cargo and enhances border security throughout Europe.

HOW AET FIGHTS ROAD FREIGHT CRIME WITH IOT

AET offers the Driver Buddy Defence Vehicle Security (DBS) System, which consists of four components:

- The DBD App, which gives drivers greater control, awareness and records their vehicle security checks using their smartphones
- The DBD Device, which monitors the inside of the trailer and records unauthorised entries
- The DBD e-Lock, which is a smart lock that enhances rear door security and communication with the DBS System
- The DBD Database, which stores all conducted security checks and issues detected by the system

These four components can be used together or separately to help freighters protect their cargo and gather data on crime incidents. They provide ways for drivers and freight companies to remotely monitor the status of the cargo and immediately receive alerts of potential security threats.

AET'S CHALLENGE

It took six years of testing and refinements to finalize the different components of the AET security solution. The last piece of the puzzle was connectivity.

AET needed an effective way to keep the DBD devices in communication and connected worldwide, wherever the freight may travel. That meant reliable global roaming in addition to IoT capabilities.

Cybersecurity was also mission-critical. Otherwise, introducing connectivity to these security systems would create yet another vulnerability in the security of freight vehicles.

For the founder, it was also important to find a SIM solution that he could personally test to make sure everything met his quality criteria.



THE SOLUTION

In their search for a connectivity provider, AET discovered the Velos IoT suite of IoT services, encompassing:

- SIM cards – M2M SIMs for IoT deployments
- Network access – Non-steered global roaming in 200+ countries
- Nomad connectivity management platform – Software to manage and control SIM deployments

With this technology, AET developed the DBD e-Lock for tracking unattended containers and shipments, with a satellite-controlled remote locking device controlled from a central platform. Thanks to open roaming SIMs, these devices remain connected wherever they travel.

The Nomad platform enables AET to track, diagnose and monitor SIMs in real-time, which is crucial for fulfilling its promise of global security. The platform allows end-users to detect and resolve any issues that arise, or lock and unlock devices within a geofenced area, while AET still holds ultimate control.

Barry says this configuration contributes to network security. "Access to the platform ensures we have overall control of the customers' SIM cards, so we have that extra layer of security and final control over rogue operators within this sector, which puts us in a much stronger position."

AET'S EXPERIENCE WITH VELOS IOT

Partnering with Velos IoT enabled AET to successfully deliver a cutting-edge system that tracks satellite-controlled, security-locked shipping containers. And thanks to Velos IoT's extensive coverage and IoT SIMs, AET's devices (the security locks, the trackers and more) stay seamlessly connected wherever they are in Europe.

Looking ahead, Barry sees the company growing at a rapid pace as it fights the increasing trend of on-road freight crime. As demand increases for its security system, the global scalability of the Velos IoT platform will help AET grow.

A SOLUTION FOR FLEET SECURITY

Harness the power of connectivity with Velos IoT. We are a global integrated connectivity provider with extensive experience in delivering IoT services via proprietary core and roaming agreements. Supported by team of 120+ experts and with over 600 global networks, Velos IoT provides customers with sustainable, scalable, compliant, and secure access to connectivity.

At Velos IoT we value the agility and resilience IoT customers require. We have shipped over 17M SIMs worldwide and offer solutions to businesses of all sizes – from small specialist players to huge manufacturers. Our portfolio includes flexibility in integration options covering features around security and resilience.

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Velos IoT



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