

ASSET TRACKING

CASE STUDY



Using asset tracking to optimise ground service equipment inspections and auditing

Background

KLM UK Engineering, a prominent aircraft maintenance, repair and overhaul (MRO) service provider, faced a critical challenge in managing and auditing its ground servicing equipment (GSE).

The sheer size of multiple hangars housing a variety of assets created potential operational inefficiencies and posed compliance performance risks during regular third-party audits.

The Challenges

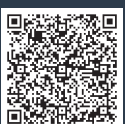
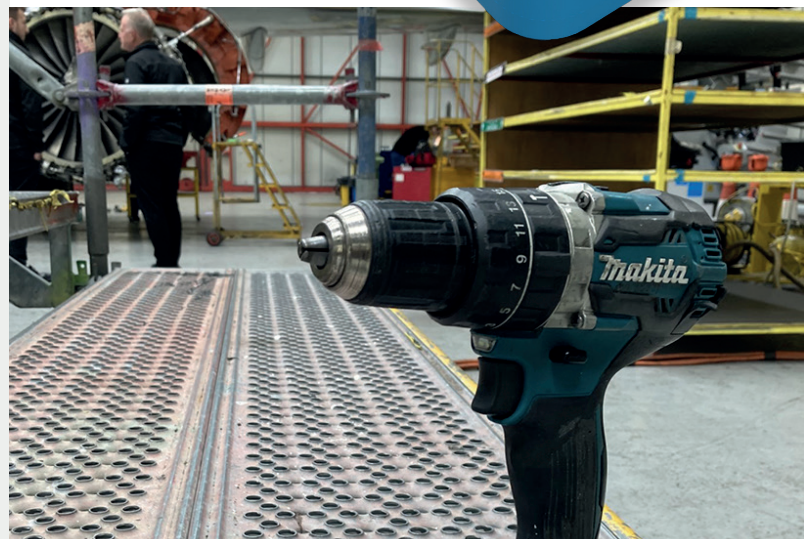
The lack of visibility over GSE led to prolonged asset location times during operations and audits. This not only increased costs through wasted engineer and auditor efforts but also potentially risked non-compliance with exacting aerospace standards.

The potential for foreign object debris (FOD) around aircraft due to misplaced equipment, heightened safety concerns.

Our Solution

Pathfindr's solution involved first implementing a Detector Network. Each asset, from Makita drills to engine stands, was fitted with a BLE Beacon for area real-time tracking. Additionally, Ultra-Wideband (UWB) technology was integrated for sub-2-meter location accuracy, especially crucial in busy environments.

Recognising the significance of environmental data, Pathfindr ensured that temperature and humidity sensors in each BLE beacon provided additional essential insights.



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Result

The impact of Pathfinder's asset-tracking solution was profound. Asset location time was reduced by an impressive 60%, leading to significant operational cost savings.

Compliance and auditing metrics saw an 80% improvement, addressing the previous delays and costs associated with the audit process.

The implementation not only streamlined operations, but also supported high safety standards by reducing the risk of FOD incidents.



Mark Walker
IT & Innovation Manager
KLM UK Engineering

“ We needed a powerful yet quick-to-deploy and simple-to-use equipment asset-tracking solution for our engineers.

Pathfindr gave us just that and so much more!

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Future Opportunities

Building on this success, KLM UK Engineering is now exploring additional monitoring applications. These include condition-based monitoring, runtime monitoring of legacy equipment, fluid level monitoring, and the introduction of 'Andon' alert boxes for immediate issue notification.

The success of the asset tracking system has instilled confidence in adopting further monitoring solutions to continually enhance operational efficiency.

In addition, KLM UK has both demonstrated as well as highly recommended the solution to other organisations in the space with pilots and full deployments coming this year.

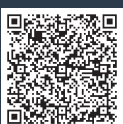
In summary, Pathfinder's technology not only revolutionised asset tracking but also helped position KLM UK Engineering for ongoing improvements.

The results showcase a tangible impact on:

- cost reduction;
- compliance performance, and
- safety standards...

...setting the stage for a proactive approach to future monitoring applications.

Find out more at pathfindr.io



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