



Document Tracking

CASE STUDY

Rolls-Royce Civil Aerospace, a long-standing customer of Pathfindr, uses a range of our technologies.

Background

ACR cards are critical documents that follow engines throughout the manufacturing process. They provide vital information for quality, production and compliance control. However, due to their physical nature, job cards are prone to getting lost. Combine this with the scale of Rolls-Royce and their facilities, it's clear how much time could be wasted searching for misplaced paperwork.

The Challenges

The costs associated with misplaced job cards include significant employee time wasted searching for them, delays due to reprinting and recertification, potential reverse engineering of the production process, and possible product delivery delays. The opportunity cost can be substantial, with an estimated £100 per hour per person spent searching for lost cards.

Our Solution

We proposed a cost-effective and minimally disruptive solution by attaching small BLE tags to job cards, installing a network of Detectors throughout the Rolls-Royce facility, and connecting these Detectors to a central Cellular Gateway.



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Result

Efficiency improved with a **94% reduction** in search times, and disruption to other personnel was minimised. This success has led Rolls-Royce to use Pathfinder's technology across many of its UK and global locations for tracking additional assets like tooling and high-value equipment.



“*Pathfindr really helped speed up the time of locating assets, improving asset efficiency & procurement requirements.*”

James Ayre
Manufacturing Services Executive
Rolls Royce Civil Aerospace

Future Opportunities

Rolls-Royce continues to implement our tracking technology across their facilities, with Pathfinder now being present in nearly all of their UK sites. Efforts are currently focused on tracking and managing tooling to optimise their processes more effectively.

In addition, to enhance sustainability efforts, they are looking to measure equipment energy usage. This will identify current metrics and implement new methods to reduce their carbon footprint using our 3-phase power monitor.



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