

The Impact of Delays: How We Are Addressing Ground Power Operational Challenges

An exciting partnership combining Beam Connectivity's innovation with JLC Ground's aviation industry expertise

Industry: Aviation

Date: 2025



Have you ever been affected by airport delays? Whether it's missing an important business meeting, enduring unexpected costs, or simply the frustration of lost time. Delays are common and significantly impact both passengers and airlines. Fortunately, we hold the answer to address these frustrating operational challenges.

Read on to find out more



We are delighted to be collaborating with JLC Group, a leading supplier of Ground Power Units. Leveraging, Beam Connectivity's platform injects cutting-edge connectivity technology into these vital power systems, proactively tackling issues in real-time maximising efficiency while minimising costly delays.

Beam Connectivity's in house expertise allows for maximum adaptability developing custom solutions for almost any connected use-case. Our engineers have successfully optimised end-to-end hardware and software solutions to integrate and operate with ground power units creating the ultimate connected experience that has been rolled out to multiple UK airports and is in operation today.

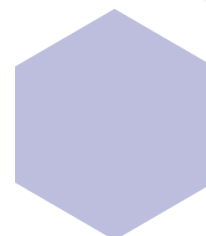
"I feel truly proud to be part of such a knowledgeable and versatile team. In just a few short months, our team of dedicated engineers have made significant progress in enhancing airport journeys for everyone. It is truly remarkable to be involved in something with the potential to revolutionise the way we travel."

Tom Homewood, Software Director at Beam Connectivity Ltd



All of this sounds exciting, but why are ground power units necessary and why are they used for on-ground aircraft?

Ground power units are an essential resource in modern aviation, providing power to aircraft while they are on the ground. Their advanced technology enables aircraft to operate vital systems—such as lighting and avionics—without the need to run their engines, significantly reducing fuel consumption. This not only leads to substantial cost savings but also contributes to a greener, quieter airport environment by cutting unnecessary emissions and noise pollution.





Harnessing Critical Data for Efficient Ground Power Operations:

Despite their critical role, the operational management of ground power systems presents a challenge.

Effective oversight is essential for keeping airports running smoothly. By proactively monitoring power usage and identifying inefficiencies early, potential disruptions can be minimised.

Visual indicators of desktop power consumption provide real-time insights, allowing teams to quickly detect anomalies and address issues before they escalate. This approach helps prevent cascading delays, ensuring seamless operations for airlines and passengers alike.



"Our new GPCS system at JLC Group, in partnership with BEAM Connectivity, is not just a tool, it's a revolution! It's about giving you the power to see, control, and optimise your Ground Power Units in real-time. Imagine the possibilities - minimising stand downtime, cutting costs, enhancing efficiency, and reducing delays, all at the touch of a button. This isn't just about innovation; it's about elevating your airport's productivity to soaring new heights. Join us on this journey and together, let's redefine the landscape of ground power management!"

Tony Hayes, CEO of JLC Group



Pioneering connected data

Assessing the impact of the revolutionary Connected-Ground power system is almost immediate, making its value clear to see.

As such, many airports have been keen to get involved in monitoring and trial phases that are currently underway; rigorous testing is currently in progress pushing the platform to its limits, ensuring we can meet the demanding expectations of busy airports.



The Beam connectivity effect

By integrating our IoT connectivity and data expertise, we are transforming how Ground power systems are monitored and maintained. With real-time tracking and performance insights, airport operational teams can now:



Real-time insights: Instantly locate Ground Power Connectivity System (GPCS), eliminating unnecessary downtime.



Visualisation: Monitor power consumption and operational status around the clock.



Proactive: Proactively address maintenance issues before they escalate into costly failures.



Our Solution: Our connected solutions empower airports to operate with greater precision and reliability, ensuring smoother ground operations and a more seamless experience for passengers.

The feedback so far has been overwhelmingly positive, reinforcing our belief that this technology will set a new standard for efficiency in airport operations.

Stay tuned for further updates as we continue to expand our reach and refine our solutions. It has been a pleasure working alongside JLC so far, and we are eager to see the ongoing impact of our collaboration in shaping the future of airport operations

About Us

We build best-in-class connected systems, supporting our customers to focus on and interpret the value of their data. Founded in January 2020, we are a truly multi-disciplinary team with decades of experience in user-centric design and delivery of connected consumer products. Understanding the need for an agile delivery of software-centric systems, our robust end-to-end IoT solution offers superior performance thanks to our deep understanding and drive for innovation.

To schedule in a demo, please contact:

Feda Abidrabu on feda@beamconnectivity.com

BEAM
CONNECTIVITY