# Taking flight: **AgustaWestland**

# **01 THE CHALLENGE**

AgustaWestland (now Leonardo) set
Critical Software the challenge of
developing a ground-based suite of tools
as part of a next-generation,
state-of-the-art Health & Usage
Monitoring System (HUMS). The system
was required for the AW101 medium-lift,
super-helicopter, used for both military
and civilian purposes. The ground-based
tools were needed to enable full and
efficient exploitation of all captured data.

### 02 THE SOLUTION

Critical Software designed and developed an open-standards, 'run-anywhere' HUMS software solution based on Web 2.0 technologies. The innovative new system was designed to be modular and flexible, with an inbuilt capacity for cost-effective future modifications.

The system integrated a unique web-based user interface, as well as the ability to support and accommodate different maintenance management systems, database systems, aircraft variants, time zones and languages.

# 03 THE RESULTS

The new system has had a significant impact on operational performance, reducing the time required for debriefing by up to 300%. This has significantly reduced the demand on pilots after flights, allowing for greater operational efficiency and performance. Not only that, but there has also been a marked improvement in mission deployment time and costs too.

The system has also allowed for simultaneous aircraft processing to take place, with access granted to multiple users both internally and externally. This has resulted in productivity gains across a number of related processes.

Due to its future-proofed design, the software solution has enabled further evolutions and modifications to be undertaken in a timely and cost-effective manner too.

## 04 THE CLIENT



