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## **Critical Software developing HUMS software for AgustaWestland: Health & Usage Monitoring System (HUMS) Ground Station software application for one of the world's leading helicopter manufacturers**

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**Coimbra, 18thFebruary, 2008 – Critical Software is currently developing a revolutionary Health & Usage Monitoring System (HUMS) Ground Station software application under contract to AgustaWestland, one of the world's leading helicopter manufacturers. Scheduled for release in the first half of 2008 this innovative system, built from the ground up, will deliver an autonomous web based HUMS download, processing and analysis system capable of interacting with virtually any maintenance management system in use by operators today. The system will acquire, analyse, communicate and store data gathered from sensors and**

**accelerometers that monitor essential components for safe flight (Engine, Transmission and Structural Health & Usage, as well as Failure Analysis). After analysis, the data allows operators to: Detect abnormal airframe and component vibration, manoeuvres and stress; Monitor flying hours and airframe and component cycles and failures: Generate feedback where training and maintenance procedures should be reviewed; Support a flight operations and quality assurance program; Monitor fleet-wide trends in aircraft operations and component usage.**

The new application software is built upon open standards, utilising Critical Software's own experience to maximise application performance, portability, and security. With more than 30 dedicated project personnel, this represents one of Critical Software's largest current projects. "We are very proud of the relationship and trust that has been established between us and AgustaWestland. This stems from many years of investment in the aerospace domain and our dedicated drive to create positive business relationships with key players in the field", says Nuno Almeida, Business Development Director for the Aeronautics, Space and Defence Markets.

Critical Software and AgustaWestland share a common goal of fostering innovation. By providing users with an enhanced level of scalability, the new system will accelerate the pace at which HUMS processing outputs are made available and give a far better user experience, whilst also delivering improved HUMS processing capabilities. This will result in better data quality, faster operational turnaround times, more accurate data trending and reporting and enhanced flight safety.

This all-new web driven application provides Intuitive, user-centric human interface and a run-anywhere, installation-free platform, as well as an ultimate flexibility in fleet maintenance and operation. The system provides new data gathering mechanisms that permit non-sequential and concurrent aircraft processing with unprecedented platform flexibility that will enable operators and manufacturers to give a better, faster and more responsive HUMS analysis capability. Furthermore the new system provides unprecedented configuration functionality capable of accepting on-aircraft software and data changes without the need to update and re-load a new version of the HUMS application.

### **About Critical Software S.A.**

Critical Software is an international company that provides solutions, services and technologies for mission and business critical information systems. The company was founded in 1998, is headquartered in Coimbra and has offices in Lisbon and Oporto (Portugal), San Jose (US) and subsidiaries in Southampton (UK) and Bucharest (Romania). Critical Software supports customers across several markets including Aerospace, Defence, Manufacturing, Telecom, Government, Finance and Energy. Customers include Siemens, NASA, Soporcel, ESA, Vodafone, Eumetsat, EADS, Astrium, ChevronTexaco, Deutsch Telekom, AgustaWestland, among many others renowned in Europe and the US. The company operates a quality system certified to CMMI® Level3, ISO 9001:2000 Tick-IT, ISO 15504, AQAP 2120 and EN9100.

### **About AgustaWestland**

AgustaWestland, a Finmeccanica company, is one of the largest helicopter companies in the world. The company offers an unrivalled range of helicopters, training and support solutions to satisfy the requirements of civil and military customers. AgustaWestland has its primary operations in Italy, the United Kingdom and the United States of America.

*Source: Critical Software*

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