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## **Cassidian selects SMI to demonstrate advanced CBM/PHM concepts**

Cassidian (an EADS company) has awarded contracts to SMI to demonstrate advanced concepts and capabilities in Condition Based Maintenance (CBM) and Prognostic Health Management (PHM).

CBM or PHM is a methodology to increase operational availability, improve efficiency, and reduce cost. This methodology is driven by an “evidence of need” for all unplanned maintenance actions, and is measured by a set of Key Performance Indicators (KPI). Tracking and optimizing the KPI is a practice commonly called Performance Based Logistics (PBL) or performance-based support.

PBL is a motivation behind the performance-based design, which proactively uses the KPI to improve aircraft and system/subsystem designs. To achieve the goal of performance-based design, a model of the maintenance process for the fleet of aircraft of interest is essential. The model can also be used to estimate maintenance down time and cost. Such a model has been developed by SMI and validated with the historical data provided by Cassidian.

In addition to the performance-based maintenance model, since 2009, SMI has proven the concepts of other key CBM capabilities including an extensive model library of aircraft systems for diagnostics and prognostics, and high level reasoning analytics.

SMI provides predictive analytics software and cloud-based services to enable remote health monitoring of airplanes, engines, and other systems that demand high safety and uptime.

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