Taleris Maintenance and Prognostics Services

Taleris is a joint venture company between GE Aviation and Accenture. From GE Aviation, we leverage advanced predictive analytics built upon the powerful Predix™ platform. These technologies have been in use in both civil and military applications for more than 20 years. From Accenture, we leverage their consulting expertise and deep domain knowledge of the commercial airline industry.

When combined, the technologies and services from Taleris – delivered through a combination of software assets and in-depth subject matter advisor expertise – help airlines achieve significant savings.

The Airline Services Network (ASN)

Built upon GE’s patented Predix platform, Taleris has created the Airline Services Network (ASN). This tool aids in the visualization of the data pertaining to individual aircraft or fleets as well as individual components or systems. Using data collected from the aircraft via Quick Access Recorders (QAR), maintenance records from the airline’s MRO system, pilot reports, ACMS-type messages and other sources, the ASN allows maintenance controllers and engineers to turn vast quantities of data into actionable information. The Maintenance and Prognostics Services are designed to provide outcomes for the airline in two primary categories. At a basic level, the ASN allows engineering managers to investigate potential system issues and drill-down to the actual component behavior, looking at the raw system and/or component performance data. This allows the aircraft engineers to make intelligent decisions about what maintenance actions to take, and the urgency of taking those actions.

Outcomes Delivered

› Improvement in On-Time Performance
› Increase in aircraft, system and component reliability
› New insights and powerful fleet comparisons through correlated aircraft and operational data
› Reduced operating costs in the form of:
  › Fewer repair iterations and a shorter time required for the fixes that do occur
  › Reduction in the number of No Fault Found (NFF) situations
  › Reduction in maintenance man-hours
  › Reduced likelihood of delays, air turnbacks and AOG situations
  › Accuracy of repair, or “first pass yield”; fixing the problem the first time
About Taleris

Taleris is a joint venture between GE Aviation and Accenture. Officially founded in December 2012, Taleris brings together select technology from our parent companies as well as their domain knowledge of the airline industry.

Our Mission

We deliver value to the global aviation industry by enabling our customers to predict, prevent, and recover from disruptions. Steeped in a proud heritage, our passionate team combines innovative technology and the intelligent application of analytics to harness the power of data to optimize decision making – with the ultimate goal to keep you moving.

Predictive Analytics

The other category of Maintenance and Prognostics Services is predictive analytics. Using advanced computing capabilities and adaptive learning, Taleris is able to provide alerts to the airline about deteriorating system or component health. This allows the aircraft engineers to proactively take action before a fault results in a disruption to the operational schedule. In essence, Taleris gives the airline the power to turn unscheduled maintenance events into scheduled maintenance.

Taleris provides this as a software-enabled service, rather than simply a software product. Our data scientists analyze the “Big Data” associated with today’s modern aircraft, identify actionable information, and present it to the airline in the form of alerts and workflows providing advanced decision support to aircraft engineering teams. The Maintenance and Prognostics Services are hosted by Taleris, and are distributed to the client as a web-enabled application.