SMART**MAINTENANCE**FASTSM





The Power of a Great Scheduled Maintenance Program

Aging Aircraft

In 2018, the average age of the total Air Force fleet was 27 years with the B-52 and KC-135 averaging over 45 years of age and the Navy finding itself in a similar position. Recapitalization efforts face protests, production delays, technology challenges and extremely high price tags. Many legacy aircraft are flying beyond their intended design with Service Life Extensions. This puts a tremendous burden on those responsible for sustainment.

The Sustainment Challenge

As aircraft age, the System Program Office (SPO) responsible for sustainment and improving Aircraft Availability, Reliability, and Air Worthiness face budget constraints and a multitude of logistical challenges. Improving Aircraft Availability depends on three focus areas: 1) Parts, 2) Maintenance, and 3) Depot possessed time. Parts, structural degradation, and rising cost per flying hour become Logistical challenges as does maintaining the aircraft's airworthiness.

How effective is your Scheduled Maintenance Program (SMP)?

Over time, scheduled maintenance inspections are no longer aligned with the maintenance requirements of an aging platform. Unscheduled maintenance events increase and the quality of scheduled events decrease. Maintainers are often left wondering why inspections don't improve performance and if they are applicable and effective. Depotmaintenance packages increase, over and above cost become the norm, and depot production delays are often due to unplanned work. Operational & Depot level inspections are not integrated and the logistical pipeline intended to support real world mission requirements struggles. **How do** you transform your SMP to meet changing Maintenance requirements?

Measurable Improvements

Availability	
Reliability	
Mechanic Efficiency	
Maintenance Cost	▼
Unscheduled Parts Demand	▼



"Hexagon facilitated the JSTAR's Chief Engineer to transform the maintenance program from a segmented C-Check to an integrated hierarchical program extending the service life through 2038." **AI Toler - Project Manager**



"Hexagon facilitated the establishment of justifiable engineering requirements launching the first Scheduled Maintenance Program for the Global Hawk." **Stephen Turner - Program Manager**

Transforming Your Program

Your aircraft SMP is the foundation for lifecycle sustainment. Transforming your program to meet changing maintenance requirements of an aging platform is the single best investment you can make.

We serve the System Program Office (SPO) responsible for providing Aircraft Availability, Reliability and Air Worthiness to meet mission requirements. We provide the engineering analysis for the Chief Engineer to transform and justify the Scheduled Maintenance Program. SMP transformation occurs through a Working Group led by the Chief Engineer, Stakeholders, and facilitated by Hexagon to perform an engineering analysis utilizing the Maintenance Steering Group 3 (MSG-3) methodology.



Our Smart Maintenance Fastsm Solution

will establish, implement and sustain your weapon system with an SMP centered on the "Right Time to **Find**... Right Time to **Fix...**"

Establishing

- Engineering Requirements Maintenance Steering Group-3 (MSG-3) methodology
- Hierarchical Integration Aligns Operational and Depot Level Inspection intervals
- Insight Software Suite Designed to analyze failure data and provide a repository for Engineering Requirements that justify, track and manage SMP

Implementing

- **Supportability Requirements** Parts, Tools, Consumables, and Skills
- **Depot Inspections** depot level brochure
- Tech Data Work cards and job guides

Sustaining

- Inspections Applicable and Effective Tasks
- Reliability Scheduled vs Unscheduled
- Aircraft Availability-Depot Production and adjusting inspections for a robust SMP

Insight Software Suite

Our software products, designed and ready for military network certification, directly complement Smart Maintenance Processes. They vastly improve data integrity, clarify decision-making, enable standardization, and speed MSG-3 analysis.

After implementation, our products provide customers with authoritative, centralized data and ensure fact-based decision-making capabilities for any SMP.



• Insight **Decision** filters historical maintenance failure data and transforms it to relevant decisionmaking information. Facilitates root cause analysis and provides continuous monitoring of fleet reliability and task performance throughout the platform's lifecycle.

• Insight**Analysis** provides the MSG-3's decision logic, documenting the justification of engineering requirements of the aircraft SMP.

It is fully A4A MSG-3 compliant, DoD adapted and supports both fixed and rotary wing aircraft.



The Hexagon Difference

If you're looking to take control of your Maintenance Program and provide a more available, reliable, and airworthy warfighter– Results include C5, TH-1H, UH-1N Huey, F-15, E-8, and RQ4-B **We Deliver!**

