



MSG-3 Analysis

Develop Supportable Tasks

Search Data

## Maintenance Inspection Gap

Often program engineers are not aware of the origins of their Scheduled Maintenance Program (SMP). They have no single source or tool available to understand the methodology or considerations used to develop these inspections. Original inspections come from the OEM when the aircraft is new, and as the aircraft ages the original inspections become out of balance with the needs of the airframe and system. How is this issue, so critical to the life of the airframe, being addressed?

## Engineering Requirements Traceability

Do you have the tools to track changes to engineering requirements? There are several factors considered when a cognizant engineer makes an adjustment to the inspection program. How are safety concerns considered? Often information is not available or accessible to answer critical questions.

## How Scattered is Your Data?

Are you able to search the relevant data that was used to create your engineering requirements and schedule maintenance tasks? Engineering data as it relates to maintenance inspections is typically buried in reports, multiple forms of technical data, or located in paper or digital files. This information is often difficult to navigate and is sometimes lost or forgotten. This data is important in making critical decisions about scheduled maintenance inspections. Additionally, none of this engineering data is searchable in a comprehensive way that relates it to scheduled maintenance inspections.

## A Great Schedule Maintenance Program provides Measurable Improvements

Availability	▲
Reliability	▲
Mechanic Efficiency	▲
Maintenance Cost	▼
Unscheduled Parts Demand	▼



Managing and maintaining a productive efficient SMP is vital for fleet performance.

Insight**Analysis** makes this process very easy by centralizing all required information into a manageable repository. It is truly the “one stop, one shop” module that allows you to effectively manage your SMP.

**-Terry Thomas – MSG-3 SME**

## InsightAnalysis

Insight Analysis is the catalyst for the SMP transformation 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.

The MSG-3 methodology is embedded into Insight Analysis for extensive technical data collection and analysis. Insight Analysis ensures program engineers have all data, graphics, and an understanding of their SMP at their fingertips.

### Data Collection

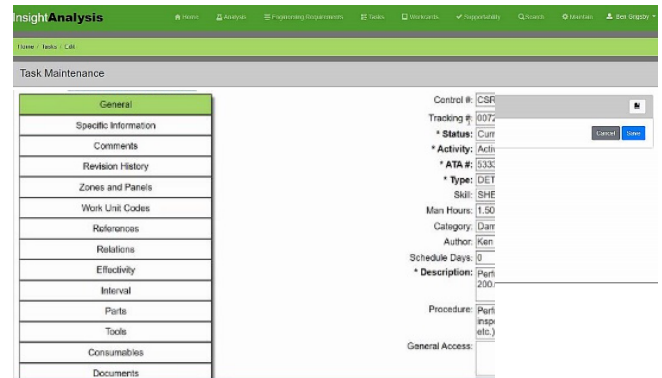
- **MSG - 3 Analysis** - allows users to capture data that justifies engineering requirements.
- **Holistic Approach** – analysis of Systems, Structures, Zonal, and Lightning – High Intensity Radiated Fields (L-HIRF) components.
- **Mandatory Requirements** – allows user to load OEM engineering requirements and develop maintenance tasks.

### Traceability

- **Document** – applicable and effective engineering requirements based on MSG-3 Analysis. Establish task type, Intervals, model/effectivity, and Item to be inspected all with connectivity to the MSG-3 analysis that drove it.
- **Develop** – fully supportable maintenance tasks with associated parts, consumables, equipment, PPE, and special tools are researched & referenced based on engineering requirement. Maintenance tasks remain connected with the engineering requirement.
- **Modifications** – all updates and changes to analysis, engineering requirements, and maintenance task can be tracked throughout the platform's lifecycle.

### Data Repository

- **Stores Relevant Data** - stores data from MSG-3 analysis, engineering requirements, and maintenance tasks. Used for research and to make critical decisions.
- **Customizable Search** - search by multiple fields of data to get specific results.
- **Dynamic Sort & Filter** - sort and filter pages allow user to see instant results and quickly change sort/filter criteria.



### 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.

Our Smart**MaintenanceFast**<sup>sm</sup> Solution will establish, implement and sustain your weapon system with an SMP centered on the "Right Time to Find... Right Time to Fix...."

### 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!** . . .

Right Time to **Find...**

Right Time to **Fix...**



Call

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