HEXAGON | US FEDERAL

INSIGHT**DECISION**SM

Reliability Analysis Reporting and Historical Data Mining

Transforming Scheduled Maintenance Programs

We are passionate about delivering high performance Scheduled Maintenance Programs (SMPs) for fixed and rotary wing aircraft. We believe data continuity, web-based availability, and data integrity are the foundational aspects of an effective Scheduled Maintenance Program.

SmartMaintenanceFastSM, consisting of FleetInsightSM technology products which directly complement FleetVectorSM maintenance solutions, speeds the conversion of legacy sustainment processes into world-class SMPs. After implementation, FleetInsight products afford customers with authoritative, centralized data and provides fact-based decision making capabilities for any SMP.

What is InsightDecision?

InsightDecision is one part of the FleetInsight technology suite. It cleanses historical maintenance failure data and transforms it into relevant decision-making information, reducing analyst time by more than 70% compared to manual analysis. It is an intuitive, web-based automated product designed for and compliant with military network certification standards. InsightDecision vastly improves data integrity, clarifies decision-making, enables standardization, and speeds work throughout the SmartMaintenanceFast implementation process or evaluation of your existing maintenance program.

Accurate data supports logical decisions and the efficient allocation of limited resources. InsightDecision identifies and catalogs all data associated with reliability improvement efforts. Our product enables rapid depiction of inaccurate source data. It significantly improves analysis quality and trending of maintenance data yielding rapid, fact-based root-cause determinations. InsightDecision consists of distinct Data Validation and Fleet Analysis modules.

Data Validation

InsightDecision rapidly analyzes, validates, and transforms user-defined periods of historical aircraft in-service data spanning multiple sources into relevant information for key decision-makers. It assists customers in managing enterprise content for large scale aircraft maintenance operations making the most of organizational information and infrastructure.
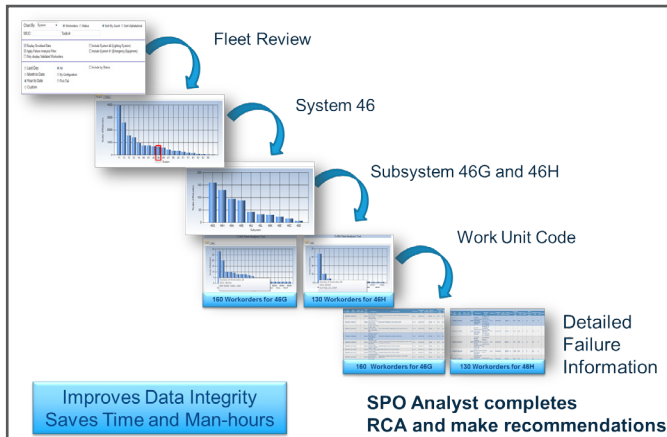
InsightDecision implements both built-in and customizable "scrub" rules to identify errors in source system data records and performs pre-validation as depicted below. Specifically, inputs related to How Malfunction (HM) codes, Action Taken (AT), When Discovered (WD), and the Work Unit Code (WUC) are examined to ensure proper correlation between discrepancy and actions taken. Accurate data provides the basis for exact root cause analysis (RCA) and supports corrective actions.

	Rule Active	Rule Name	Scrub Total	Scrubbed Per Day
Edit	✓	FNON REVIEW OF WUC 44 AND 91	22456	71.97
Edit	✓	WHEN DISCOVER CODE EQUALS M AND WUC EQUALS 03600	3	0.01
Edit	✓	WHEN DISCOVER CODE EQUALS "K" AND WUC EQUALS 03600	0	0
Edit	✓	WUC BEGINS WITH 0 AND CORRECTIVE ACTION CONTAINS insp c/w	188	0.6
Edit	✓	WUC BEGINS WITH 0 AND HOW MALFUNCTION CODE AND ACTION TAKEN CODE IS NOT BLANK	115	0.37
Edit	✓	v2 AUTOMATIC VERIFICATION FOM AND REMOV [MAKE 800 S AND VERIFY]	3570	11.44
Edit	✓	v4 No Records	77	0.25
Edit	✓	v5 HOW MALFUNCTION CODE EQUALS 799	111331	356.83

EXAMPLE OF SCRUB RULES

Fleet Analysis

The Fleet Analysis module within InsightDecision provides the user additional visibility into maintenance trends providing user definable and additional built-in filters which focus the data available for review to the user's specific area(s) of interest. Data query results are presented to the user in a graphical form which includes drill-down graphing and tabular displays which are easily exported to Microsoft Excel.

DETAIL FAILURE INFORMATION DRILL-DOWN

We empower you to make smarter and faster operational decisions. We enable you to organize vast amounts of complex data into understandable visual representations. We equip you with superior products and solutions to optimize and protect operations to make your organization safer and more productive.

InsightDecision Benefits and Capabilities

- Reduces analyst time by more than 70% compared to manual analysis
- Consolidates relative and historical data from multiple sources
- Performs aircraft systems comparison across the entire fleet
- Facilitates "True" Root Cause analysis and identifies negative maintenance trends
- Applies "scrub" rules, identifies errors, and cleanses source system data
- Allows analyst to quickly analyze historical data across multiple years
- Drill-down graphing and tabular displays capability
- Drives fact-based decisions supporting SMP management
- Web-based, DoD compliant and network ready

Minimum System Requirements:

Microsoft Windows 2008 Server including IIS 7.0, Microsoft SQL Server 2008 Standard, 8GB RAM, storage requirements dependent on amount of data processed.

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About Hexagon US Federal

Hexagon US Federal is an independent subsidiary for Hexagon's U.S. federal business. Hexagon US Federal provides mission-critical and business-critical solutions to governments and service providers. A global leader, proven innovator, and trusted partner, our software and industry expertise help improve the lives of millions of people through safer communities, better public services, and more reliable infrastructure. Visit hexagonusfederal.com.

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