

# Improve reliability and supportability

with proven maintenance and logistics analysis tools and services



## Reliability, Maintainability, Supportability

### Solutions Delivered

- Developed “Event Based Maintenance,” a revolutionary maintenance concept using optimization techniques to minimize cost and maximize asset availability.
- Implemented a comprehensive Reliability Program for a major Unmanned Aerial Vehicle Original Equipment Manufacturer.
- Performed a complete RCM analysis for AH-1Z and UH-1Y aircraft. The analysis effort included Reliability Block Diagrams to predict logistics impact of maintenance changes and integration with the Logistics Support Analysis.
- Developed a Modeling and Simulation process and tool to predict logistics resource requirements utilizing inputs from RCM and maintenance task analysis.
- Developed and delivered a comprehensive Design Interface/Maintenance Planning training program.
- Developed and delivered a complete RCM training program for military and commercial applications.
- Performed simultaneous RCM analyses for several aircraft Type/Model/Series to validate RESET Programs.
- Developed a Condition Based Maintenance program for underground mining equipment that included RCM analysis and on-board systems to monitor equipment health.
- Implemented a web-based telematics system for utility trucks providing location and vehicle health, status, and diagnostics.
- Supported logistics management of a Technology Development/Competitive Prototyping acquisition program for the development of a new ACAT I Laser/Missile Warning System for six Navy/Marine Corps Assault Platforms.
- Participated in the development of internationally recognized standards including JA1011, Evaluation Criteria for Reliability-Centered Maintenance (RCM) Processes and GEIA-STD-0007.

## About Us

Andromeda Systems Incorporated provides tools and services to Program Managers and Fleet Owners to gain critical insights and system improvements to optimize operations, make better business decisions and achieve measurable cost savings. Benefits are provided through these *integrated service areas*: Engineering, Financial Services, Force Planning, Industrial Operations, Information Technology, Program & Acquisition Management, Reliability, Maintainability, Supportability, and Technical Publications.



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# Reliability, Maintainability, Supportability



Andromeda Systems Incorporated provides unparalleled expertise and capabilities in the Reliability, Maintenance and Logistics field. Our staff of nationally and internationally recognized leaders are shaping the industry and developing revolutionary solutions in the military and commercial sectors. Leverage our experience and proven solutions to improve supportability and reduce costs with state-of-the-art maintenance and logistics analysis tools.

## Capabilities

### Condition-Based Maintenance & Prognostics Systems

- Architecture Development
- Diagnostics and Prognostics Algorithm Development
- Maintenance Management Systems Integration
- Systems Development to Collect and Analyze Equipment Health Data

### FMEA / FMECA

- FMEA Software Development and Implementation
- New and In-Service Equipment
- RCM Integration and Maintenance Planning Processes
- Training and Consulting

### Level of Repair Analysis (LORA)

- Analysis
- Cost model and Algorithm Development
- Software Development

### Lifecycle Cost Analysis

### Maintenance Concept Development

- Advanced Maintenance Schedule and Performance Optimization
- Event-Based Maintenance Concept
- Integrated Maintenance Concept
- Performance-Based Logistics Support

### Maintenance Management System

#### Configuration & Integration

- Analysis and Scheduling Tool Integration with Maintenance Management Systems
- Maintenance Scheduling Systems Development
- System Configuration

### Maintenance Planning

- Resource Requirements Prediction
- Support Resources Identification and Analysis
- Complex Systems or Fleets
- Tool and Software Development
- Military and Commercial Assets
- Training and Consulting

### Modeling & Simulation

### Reliability & Maintainability Analysis

### Reliability-Centered Maintenance (RCM)

- Consulting, Mentoring & Facilitation
- Integration: CBM+, Logistics Data Systems, Maintenance Management Systems
- Preventive Maintenance Plan Development for
  - Aircraft
  - Data Centers
  - Ground Vehicles
  - Industrial and Manufacturing Equipment
  - Power Plants
- Software Development & Implementation

### Supportability Analysis

### Technical Data Development

- CAD and Modeling Programs
- Design Change Documentation
- Level 3 Engineering Drawings
- Procedure Development for Maintenance, Troubleshooting and Repair

### Training Systems Development



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