RIMFIRE

RELIABILITY & IMPROVEMENT THROUGH FAILURE IDENTIFICATION & REPORTING

RIMFIRE's failure reporting and corrective action tracking saves time, money, and lives.

Axient delivers a failure reporting system designed to identify and track reasons for equipment returns, determine top drivers and to subsequently verify effectiveness of corrective actions. Built on a foundation of almost two decades of operational experience, RIMFIRE is a critical solution that provides inspection services, software applications to collect and analyze data, and engineering services to supply quality control and reliability engineering support. The flexible software suite was originally designed and implemented to meet an Army Aviation customer's need to enhance their inspection services but has been enhanced and improved to adapt to a range of systems and customer requirements.

Our Approach

The RIMFIRE Software Suite is a fully customizable and scalable failure reporting and analysis system that streamlines the process to make data-driven decisions about system reliability and maintenance. RIMFIRE includes three web-based applications: Inspector Desktop – a data entry system; Decision Support System (DSS) – a web-based query reporting tool; and RIMFIRE Database – a root cause failure database that can handle any type of component or system. The RIMFIRE process supports the successful identification and correction of design errors, manufacturing defects, improper maintenance, and early wear out by identification of root failure causes and determination of candidates for corrective action.

The RIMFIRE Process

- Identifies and quantifies component failure modes to determine major drivers of equipment removals
- Identifies trends in failure modes and assists in developing models to predict probability of failure over operating life
- Assesses impact of individual failure modes on mean time between failure, time-on-wing, and cost
- Correlates health/condition indicators with actual hardware condition
- Provides key database used for reliability centered maintenance data analysis
- Quantifies root cause for removal action
- Adapts to accomodate customer and mission priorities and goals

RIMFIRE | Product Sheet

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Key Features

Web Inspector Desktop (WID)

- Fully customizable user interface with complimentary admin tools, system scalable and intuitive real-time web based data entry.
- Custom data entry quality control checks
- Incorporates bill of materials with hierarchical parent to child relationships
- Component and their parent relationships are linked
- Allows inductions at multiple hierarchical levels, including ability to capture and associate conditions down to the piece part level
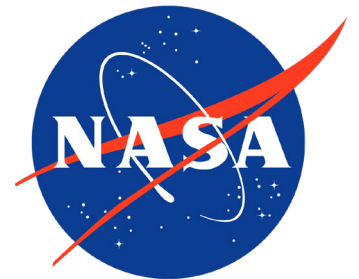- Import in commonly used formats (Excel, PDF, JPEG, etc.)

RIMFIRE is an effective failure reporting system that enables corrective actions to increase system reliability, improve maintenance practices, and increase maintenance free operating period. This drives process improvements for the systems RIMFIRE supports.

Decision Support System (DSS)

- Fully customizable with training, tool tips with field descriptions and definitions
- Ability to conduct role based user scoring
- Ability to run simple or complex customizable reports
- Customizable root cause analysis charting
- Query engines and charting capabilities identify root cause enabling corrective actions at all levels of maintenance
- Complete teardown analysis summary reports available for PDF export
- Captures and stores condition based maintenance/ prognostics and predictive maintenance related data

Service and Agency Applicability

RIMFIRE has supported

5500
Teardown assessments per year

120
Product quality deficiency reports submitted per year

Contact Us

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