PHM Technology
Decisions better made

MADE
MAINTENANCE AWARE DESIGN ECOSYSTEM

MADE 3.8.9

Release Notes

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MADE 3.8.9 brings several important feature enhancements focused on expanding and improving Reliability-Centered Maintenance workflows, extending on reporting options for Hazards Analysis, enabling intelligent reuse of library data, and resolving key customer-reported requests.

This release adds support for the RCM II methodology in MBRCM, a new Hazard Analysis PDF report, a powerful Load from Library wizard, and various quality-of-life improvements across multiple modules.

Key Features include:

- **[MBRCM Enhancement] -** Full support for RCM II methodology, including decision trees and customized workflows
- **[Additional Reports] -** Generate MBRCM and Hazard Analysis reports in standardized PDF and Excel formats
- **[Smart Reuse] -** Load from Library feature to import and map model content efficiently

Model-based Reliability-Centered Maintenance (MBRCM):
Support for RCM II Methodology

User Value: Enables industry-standard decision logic and maintenance task selection for RCM II workflows. Introduces native support for RCM II methodology alongside existing MSG-3 functionality. This includes:

- Built-in RCM II decision trees and the ability to import custom RCM II logic trees via JSON
- Updates to the Failure Effect Category and task evaluation trees to reflect RCM II logic
- Modified task feasibility questions tailored for RCM II
- Enhanced manual task creation wizard for RCM II task types

PDF/Excel Report Generation for MBRCM

User Value: Generate consistent, standardized reports across MSG-3 and RCM II. A new MBRCM Report can now be generated in PDF and Excel formats, compatible with all methodologies. The report includes:

- System information & mission profile
- Maintenance Significant Items (MSIs), Functions, Failure Modes, Maintenance Actions
- Contributors & Audit log
- Decision tree questions and selected answers

RCM Summary Table Enhancements

User Value: Improves traceability of parameters used in calculations. RCM Summary Table now displays parameters to provide context for maintenance action calculations, especially when the model is updated separately from RCM definitions.

Hazards Implementation Enhancements:
Export Hazard Analysis Report to PDF

User Value: Generate structured, auditable reports for system or subsystem hazards. Supports PDF report generation for hazard analyses, includes:

- Criticality Profile information and tables
- Hazard Diagrams for each system item
- Hazard Path Analysis, including:
    - Hazard description generated from the path
    - Criticality values and categories
    - Control measures grouped by type with references

Load from Library Feature:
Streamlined Reuse of System Data

User Value: Rapidly replace or append data from standardized models. The new Load from Library feature introduces a structured, flexible method to import existing item data from the MADE Library or Palette into active projects.

- Replace Data: Overwrite selected system data categories (e.g., Items, Criticality, RAMS, Functions, Failures, Maintenance) with Library or Palette content.
- Append Data: Add new Functions, Failures, and Maintenance actions from Library items without overwriting existing project content.
- Item Mapping: Provides users with a visual and searchable interface to map Library items to project items before applying changes.
- Category Control: Allows fine-grained selection of which data categories (e.g., only Functions, or only Criticality tags) are updated.

Customer Requests, QoL, and Bug Fixes:
Reliability and Usability Fixes

User Value: Improves accuracy, consistency, and overall user experience across modules.

- Response Path Default View: Now respects selected criticality profile (not locked to RPN)
- Export Metadata: Added exportDate to support sorting exports by time
- FHA Safety Criteria UI Bug: Resolved unresponsive buttons and missing UI elements
- Criticality Parameters: Values now persist without needing to press Enter
- FHA Function Paste: Mission assignments now retained when pasting functions

Bug Fixes

- Included fixes for previously reported issues

End