RELYENCE CORPORATION

Reliability & Quality Software

FMEA • FRACAS • Fault Tree • Reliability Prediction
RBD • RCM • Maintainability Prediction • Weibull • ALT

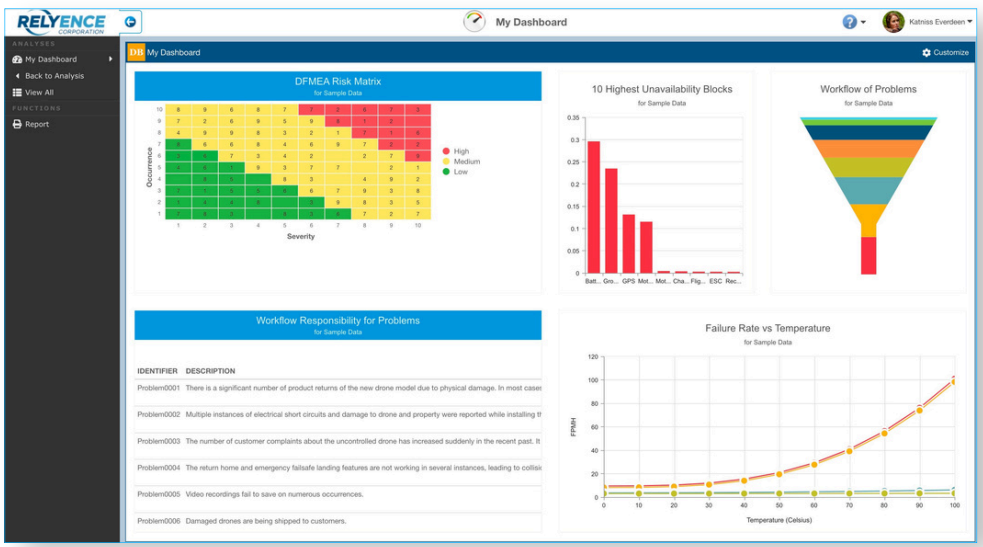
KEY HIGHLIGHTS

- Integrated suite
- Stand-alone tools
- FMEA, FMECA
- FRACAS, CAPA
- Fault Tree
- Reliability Prediction
- Reliability Block Diagram
- Reliability Centered Maintenance
- Maintainability Prediction
- Weibull, ALT
- Built-in AI features
- Browser-based
- On-premise or cloud-based
- Training and implementation
- Knowledgeable tech support
- Free, no install trial

Relyence® offers a complete solution for all your reliability and quality software needs. Along with our software tools, we offer top-notch technical support, implementation services, and training.

The Relyence Solution. The Relyence software suite empowers you to effectively manage your products throughout their lifecycle with our best-in-class tools: FMEA (including Boundary Diagrams, Function and Failure Nets, P-Diagrams, Process Flow Diagrams, Control Plans, and DVP&R), FRACAS, Fault Tree, Reliability Prediction, RBD, RCM, Maintainability Prediction, Weibull, and ALT. Each product can operate independently or can be combined in our Relyence Studio platform.

Power & Innovation. Relyence tools offer an impressive list of features including customizable cross-product Dashboards; user-interface customization; flexible report generation; data import and export; API functionality; device libraries; Workflow, Approvals, and Notifications; user and group roles and permissions; and Relyence innovations such as *always-in-sync™* technology, *Knowledge Banks™* for lessons learned reusability, *Intelligent Part Mapping™* for device decoding, and *SmartSuggest™* for high-powered data handling and AI-assisted data generation, and *Failure Direct Connect™* for FMEA-FRACAS integration.



Flexibility & Collaboration. All Relyence tools can be accessed from any computer, PC, Mac, laptop, tablet, or smartphone for ultimate flexibility and team collaboration. You can use Relyence either as an on-premise installation on individual computers or a network, or as a zero-client, browser-based platform with your data hosted in the Microsoft cloud or in your own private cloud. The choice is yours!

Rely on Excellence. In conjunction with our software tools, we provide world-class services to help ensure your success. Our Implementation and Training teams can get you up to speed quickly, and our Technical Support team consistently provides support that is unparalleled in the industry.

TRY FOR FREE

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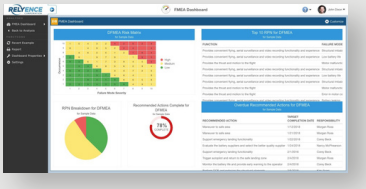
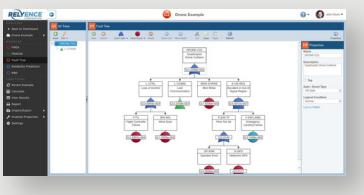


FMEA

- Failure Mode and Effects Analyses using **AIAG**, **SAE**, **AIAG & VDA**, **MIL-STD-1629**, or **custom** formats.
- Support for **Design** and **Process FMEAs**, **piece-part FMECAs**, **Software and Supportability FMEAs**, **FMEA-MSRs**, **Boundary Diagrams**, **Function & Failure Nets**, **Process Flow**, **Control Plans**, and **Foundation FMEAs**.
- Unrivaled Relyence-only **Knowledge Banks™**, **Data Autoflow™**, **SmartSuggest™**, and **always-in-sync™**.

FRACAS

- Flexible **corrective action** management platform supporting **8D**, **DMAIC**, **PDCA**, and **customized processes**.
- Calculate actual real-time metrics including **Failure Rate**, **MTBF**, **MTTR**, **Availability**, **Trend Score**, as well as **custom formulas**.
- Create your own **Workflow**, **Approvals & Notifications** process for task tracking.



Fault Tree

- Comprehensive **risk and safety assessment** using Fault Tree Analysis (**FTA**) techniques, including support for **SAE ARP4754A/ARP4761**, **CCF groups**, **disjoint events**, and **fault tree** and **event libraries**.
- Wide variety of **logic gates** and **events**, and an expansive set of **input models**.
- Calculate an array of **availability metrics** including **cut sets** and **importance measures**.

Reliability Prediction

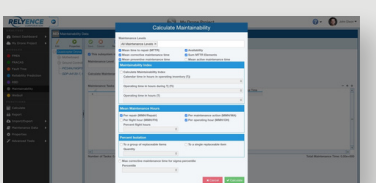
- Support for **MIL-HDBK-217F Notice 2**, **Telcordia SR-332 Issue 4**, **FIDES Guide 2022**, **217Plus 2015 Notice 1, SN 29500, IEC 61709**, **NSWC-11 Mechanical**, **ANSI/VITA 51.1**, **China's 299C**, and **NPRD/EPRD**.
- Feature-packed with **dashboards**, **system modeling**, **what-if?** analyses, **mission profiles**, **parts libraries**, **Intelligent Part Mapping™**, **default** values, **BOM** import, **allocations**, and **derating** analyses.

RBD

- Model **series**, **parallel,** and **standby redundant** configurations, spare pools, and **repeat** blocks.
- **Calculate metrics** including **reliability**, **availability**, downtime, failure frequency, MTTR, MTBF, and **path and cut sets** with calculation engine using **analytical** calculations and **Monte Carlo simulation**.
- **RBD Plots**, **Analytics Calculator**, **Allocation & Optimal Replacement** tools, **Sub-diagrams**, and **Libraries.**

RCM

- Reliability Centered Maintenance analysis supporting **SAE JA1011**, **SAE JA1012**, **MIL-HDBK-2173**, and **NAVAIR 00-25-403**.
- **Guided Decision Diagram** and customizable **RCM Worksheets**.
- Seamless **FMEA integration** and **FMEA Insight** capability for failure data accessibility.

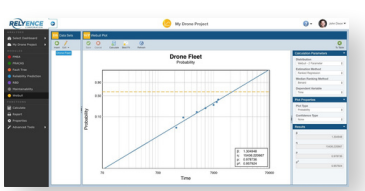


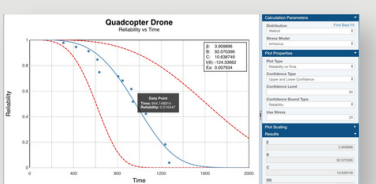
Maintainability Prediction

- Supports **MIL-HDBK-472**, Procedures 2, 5A, and 5B.
- Supports **Tasks**, Tasks Groups, **FD&I Outputs**, and **Maintainability Groups**.
- Calculates an extensive list of results including **MTTR** (Mean Time to Repair), Mean Corrective Maintenance Time, Mean Preventive Maintenance Time, and a host of other **maintenance & repair metrics**.

Weibull

- Multiple distributions supported including **Weibull**, **Lognormal**, **Normal**, **Exponential**, and **Rayleigh**.
- Support for **Reliability Growth Analysis** using the **Crow-AMSAA** technique, **Group Plots**, and **Competing Failure Mode (CFM)** analysis.
- Built-in **Best Fit** distribution analysis and **Analytics Calculator**.





ALT

- Multiple distributions supported including **Weibull**, **Lognormal**, **Exponential**, and **Rayleigh**.
- **10 Stress Models** and support for up to **5 Stresses** in calculations.
- Support for various Plot types including **Acceleration Factor vs Stress**, **Failure Rate vs Time**, **Reliability vs Time** and more along with a built-in **Analytics Calculator** and **Test Plan** tool.