Reliability & Quality Software

**KEY HIGHLIGHTS**

- Integrated suite
- Stand-alone tools
- FMEA, FMECA
- FRACAS, CAPA
- Fault Tree
- Reliability Prediction
- Maintainability
- Reliability Block Diagram
- Weibull
- ALT
- 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.** Providing seamless integration between FMEA (including Process Flow Diagrams and Control Plans), FRACAS, Fault Tree, Reliability Prediction, Maintainability, RBD, Weibull, and ALT analyses, the Relyence tool suite empowers you to effectively manage your products throughout their lifecycle. You can use each module stand-alone, or combine the tools you need in our Relyence Studio integrated platform.

**Power & Innovation.** Relyence tools offer an impressive list of features. Just a few of the highlights include: customizable cross-module dashboards; user-interface customization; flexible report generation; data importing and exporting; API functionality; device libraries; workflow, approvals, and notifications; user and group roles and permissions; and Relyence innovations such as always-in-sync™ technology, smart-layout, Knowledge Banks™ for lessons learned reusability, FMEA-Fault Tree link-sync™, and Intelligent Part Mapping™ for device decoding.

**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]
FMEA
- Perform powerful, organized, and efficient Failure Mode and Effects Analyses using AIAG, SAE, AIAG & VDA, MIL-STD-1629, or custom formats.
- Support for Design & Process FMEAs, piece-part FMECs, FMEA-MSRs, DVP&R, Process Flow Diagrams & Control Plans, and FMD.
- Always-in-sync™ technology seamlessly maintains data consistency.

FRACAS
- Flexible corrective action management platform supporting 8D, DMAIC, PDCA, or your own customized process.
- Calculate actual real-time metrics including Failure Rate, MTBF, MTTR, Availability, and Trend Score, as well as custom calculations.
- 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 CCF groups and disjoint events.
- Create organized and visually impressive fault trees, using a 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, 217Plus 2015 Notice 1, ANSI/VITA S1.1, China’s 299C, and NPRD/EPRD.
- Feature-packed with dashboards, system modeling, what-if? analyses, mission profiles, parts libraries, Intelligent Part Mapping, default values, and BOM import.
- Perform allocations and derating analyses.

RBD
- Create models incorporating series, parallel, and hot and cold standby redundancy configurations.
- Calculate metrics including reliability, availability, downtime, failure frequency, MTTR, MTBF, and path sets with calculation engine supporting analytical calculations and Monte Carlo simulation.
- Use sub-diagrams for diagram organization and reusability.
- Integrate seamlessly with other products including Reliability Prediction and Weibull.

Maintainability Prediction
- Supports MIL-HDBK-472, Procedures 2, SA, and SB.
- 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, Mean Maintenance Man Hours, and a host of other maintenance and repair metrics.

Weibull
- Wide range of distributions supported including Weibull, Lognormal, Normal, Gumbel, Exponential, and Rayleigh.
- An array of estimation methods, confidence types, and confidence methods.
- Best Fit distribution analysis for goodness of fit evaluation.
- Visually appealing plots with numerous plot types supported.

ALT
- Multiple distributions supported including Weibull, Lognormal, Exponential, and Rayleigh.
- Several stress models supported including Arrhenius, Eyring, Log-Linear, and Inverse Power Law.
- Plot types include Acceleration Factor vs Stress, Failure Rate vs Time, PDF (Probability Density Function), Probability, Reliability vs Time, Unreliability vs Time, and Standard Deviation vs Stress.
- Built-in Best Fit analysis and Analytics Calculator.