



WHITE PAPER

# Transforming your FMEA processes for the better, forever, with ReliaSoft Cloud

# Optimise your FMEA process in the cloud

**EVEN THE MOST WELL-DESIGNED PRODUCTS AND PROCESSES CAN FAIL. THE KEY TO PREVENTING COSTLY FAILURES LIES IN IDENTIFYING RISKS BEFORE THEY BECOME REAL PROBLEMS.**

**THAT'S WHERE FAILURE MODES AND EFFECTS ANALYSIS (FMEA) COMES IN.**

FMEA is a critical methodology for anticipating and addressing potential failures in products, processes, and services before they occur. Implementing FMEA effectively helps organisations:

- Reduce risk
- Improve quality and reliability
- Lower warranty costs
- Strengthen brand reputation

However, some of the modern challenges associated with FMEA can cause organisations to miss out on the full potential of their FMEA processes.

- Managing FMEAs across global teams requires a centralised solution that is easy to deploy and maintain for large user bases.
- Effective collaboration depends on an easy-to-use interface that has clear tools for visualising risk and tracking design improvements across teams.
- Additionally, capturing and reusing knowledge from prior FMEAs is essential for supporting continuous improvement and brainstorming in design processes.

**ReliaSoft Cloud** is designed to overcome these challenges, optimising efficiency and improving decision-making for FMEA teams.

With centralised FMEA management, an intuitive web-based interface, intelligent dashboards, and AI-driven brainstorming assistance, ReliaSoft Cloud ultimately ensures safer, higher-quality products, processes, and services for organisations.

In this whitepaper, we'll explore the features, benefits, and capabilities of ReliaSoft Cloud, and demonstrate how the platform facilitates more effective FMEA processes through centralised, cloud-enabled management.

## RELIAISOFT CLOUD: YOUR CENTRALISED FMEA MANAGEMENT SOLUTION

**Managing FMEAs across distributed teams has never been easier.**

ReliaSoft Cloud is a fully web-based, cloud-hosted Software as a Service (SaaS) platform. Built on ReliaSoft's proven expertise in reliability engineering, ReliaSoft Cloud transforms collaboration, streamlines deployment, and delivers powerful insights – surpassing traditional software solutions.

### Seamless access, no IT support required

ReliaSoft Cloud allows users to access their FMEAs directly through a web browser for secure, cloud-based access anytime, anywhere – with no local installations required.

All they need is a subscription and a secure connection to access the software.

Unlike on-premise solutions, ReliaSoft Cloud, as a SaaS solution, eliminates the need for dedicated hardware infrastructure or extensive IT support, reducing the cost and effort of deployment.

### Work anytime, anywhere with cloud-based flexibility

With ReliaSoft Cloud's secure, cloud-based access, users can work on FMEAs from anywhere in the world, supporting global collaboration in real time.

Whether teams are co-located or geographically dispersed, everyone has access to the same up-to-date information – without version control issues or manual file sharing.

### Scalability for teams of any size

ReliaSoft Cloud is designed to scale seamlessly from small teams to enterprise-level operations, making it ideal for organisations of any size.

The platform supports as few as 10 users and 100 viewers but can scale to thousands of users with unlimited viewers – all included within the platform's annual subscription pricing.

This scalability ensures that as businesses grow, their FMEA solution can grow with them.

## Flexible access controls for easy collaboration

Every subscription includes both editor and view-only access controls. This ensures that:

- Editors can interact with and modify FMEA data when they need to.
- Viewers can review FMEA findings without the ability to make changes – making it ideal for executives, auditors, and other stakeholders who need visibility but don't require editing permissions.

## One powerful package, countless possibilities for better FMEAs

Combining centralised FMEA management, scalable access, and effortless deployment, ReliaSoft Cloud empowers organisations to:

- Enhance their FMEAs
- Improve decision-making
- Drive continuous innovation
- Remove the IT complexity and reduce IT overheads

## I already use XFMEA – how is ReliaSoft Cloud different?

ReliaSoft has a storied history of knowledge in XFMEA – our desktop FMEA product that's been on the market for more than two decades.

With ReliaSoft Cloud, we're building on that legacy and bringing that knowledge with us.

While on-premise software XFMEA still works well for some industries, cloud-based solutions like ReliaSoft Cloud can work better for others, opening up new opportunities only made possible by cloud technology.



## SECURE AND SCALABLE FOR UNIFIED GLOBAL FMEA MANAGEMENT

Managing Failure Modes and Effects Analysis (FMEA) across large, distributed teams presents a significant challenge, often resulting in serious inefficiencies.

### The challenge: disconnected, difficult-to-maintain FMEA processes

For organisations operating at a global scale, traditional FMEA management is cumbersome, making it difficult for teams to:

- Work on the same FMEA files as their colleagues in disperse locations
- Stay consistent between FMEAs stored in different formats and systems
- Reuse valuable insights from pre-existing FMEAs in new ones
- Upgrade their FMEA software for new features

### The solution: centralised, cloud-based FMEA management

ReliaSoft Cloud eliminates these challenges by offering a fully web-based, SaaS-powered platform that simplifies FMEA management across global teams.

With a centralised system for managing all their FMEA activities, teams gain:

- **One single, secure hub** – all FMEA data is stored in a centralised, cloud-hosted platform, accessible from anywhere with just a web browser and a user account. This eliminates the risk of scattered or outdated files.
- **Multiple FMEA types & customisation options** – built-in support for major industry standards facilitates current best practice, while flexible customisation lets organisations tailor their approach to their specific needs.
- **Effortless global accessibility** – whether a team is in North America, Europe, or Asia, ReliaSoft Cloud gives them secure access to the same real-time data, improving consistency and collaboration.
- **Automatic updates & feature enhancements** – automatic updates ensure ReliaSoft Cloud users are always up to date with the latest platform features – no need for manual software upgrades.

### Real-time collaboration without barriers

ReliaSoft Cloud makes collaboration effortless:

- Multiple users across regions can view, edit, and contribute to the same FMEA simultaneously.
- Real-time access and updates mean everyone is working with the latest data – no version conflicts or searching for scattered documents.
- Custom access controls allow editors to make updates, while view-only users can review information without modifying critical data. This gives every stakeholder, from engineers to decision-makers, the right level of access.

### Scalable, hassle-free deployment

Scaling an FMEA solution across an organisation is often costly and time-consuming. ReliaSoft Cloud removes deployment friction by offering:

- **Instant setup** – it only requires a web browser and login credentials – no IT setup or additional hardware needed.
- **Flexible subscription pricing** – scales seamlessly from small teams to enterprise-wide deployments.
- **Faster, easier adoption** – no downtime, no heavy software installations. Just smooth cloud-based access.

By switching to the cloud, streamlining collaboration, and ensuring scalable, secure access, ReliaSoft Cloud helps organisations maximise the value of their FMEAs – wherever their teams are.

### Don't let your FMEA struggles hold you back

[Contact us today](#) to see how HBK can help with your organisation's unique FMEA challenges.



## POWERFUL DASHBOARDS TURN DATA OVERLOAD INTO ACTIONABLE INSIGHTS

**In today's complex engineering environments, clarity is often hard to find.**

Teams working on Failure Modes and Effects Analysis (FMEA) need an easy way to visualise risk, track design improvements, and collaborate efficiently.

Without clear insights, engineers can waste valuable time sorting through fragmented data, struggling to find the answers they need to reduce risk, improve processes, and make more informed decisions.

### The challenge: too much data, not enough visibility

When performing FMEA, users are often overwhelmed with large amounts of unstructured data and complex spreadsheets, making it difficult to:

- Quickly pinpoint high-risk areas that need immediate attention before they escalate
- Track design improvements and risk mitigation progress over time
- Provide alignment across teams with a shared view of top-priority issues
- Navigate through multiple FMEA types and formats without confusion

To drive effective risk management, teams need a streamlined, intuitive interface that makes it simple to access the right data at the right time – without getting lost in the noise.

### The solution: intuitive dashboards that simplify FMEA management

ReliaSoft Cloud's dynamic, user-specific dashboards cut through the data noise and clutter to provide clear, relevant, and actionable insights at a glance. Instead of digging through layers of data, engineers can immediately focus on what matters most as soon as they log in.

- **A clear, functional interface** – the dashboard serves as the central hub for managing FMEAs, removing clutter and making navigation effortless.
- **Seamless action tracking** – from within the dashboard, engineers can view and open assigned actions, check action completion status in a given FMEA.

### Personalised dashboards to focus on what matters most

Upon logging in, the ReliaSoft Cloud dashboard presents every user with a unique, instant overview of their most relevant FMEA data.

- **Recently viewed FMEAs** – users can quickly access their ongoing projects without unnecessary manual searching.
- **Open actions and pending risk reductions** – engineers get a clear breakdown of outstanding tasks that need attention, ensuring no critical risks go unaddressed.
- **Real-time risk profiles** – the dashboard provides a snapshot of unresolved failure causes that still need mitigation.

By cutting through data clutter and transforming raw data into precise, actionable insights, ReliaSoft Cloud's dashboards allow engineers to avoid the frustration of information overload, proactively reduce risk, and streamline decision-making processes across teams.

### Watch the dashboards in action

See ReliaSoft Cloud's intuitive new dashboards for yourself in our deep-dive webinar by ReliaSoft experts Sam Eisenberg and Zack Graves – [start from 6:55 for the dashboard demonstration](#)→



## BANISH BLANK SLATES WITH AI-POWERED BRAINSTORMING FOR FMEAS

Starting a new FMEA from scratch can feel daunting.

FMEA teams need to rely on their engineering expertise and leverage past knowledge to capture failure modes and assess risk – all without missing critical details.

### What if AI could accelerate the process, offering intelligent suggestions based on your own historical data?

ReliaSoft Cloud's AI-powered assistance transforms FMEA brainstorming, helping engineers work smarter, not harder.

### The challenge: capturing and using knowledge for smarter FMEAs

Successful FMEAs depend on engineering expertise and lessons learned, but engineers often struggle with:

- Blank templates that make brainstorming processes overwhelming and time-consuming
- Scattered historical FMEA data, making it difficult to find and reuse past knowledge, potentially leading to redundant work or overlooked risks
- Inconsistencies across similar components and failure modes, especially in large organisations with multiple cross-functional teams

Organisations need a way to harness past knowledge to streamline the brainstorming process – without replacing human engineering expertise.

### The solution: AI assistance for faster, more effective brainstorming

ReliaSoft Cloud integrates AI-powered assistance to help teams complete FMEAs more efficiently, while still preserving human decision-making.

While performing an FMEA, the team can request AI assistance for any record type – including functions, requirements, failure modes, effects, causes, controls, or actions.

The suggestions are generated using an LLM + RAG approach (Large Language Model and Retrieval-Augmented Generation) that leverages cutting edge LLMs hosted by [Microsoft Azure Web Services](#)<sup>®</sup>.

The prompt prioritizes content from similar FMEAs in your ReliaSoft Cloud site when applicable, but also includes suggestions generated by the model based on publicly available sources.

We maintain a stateless system and each generation is independent. Customer data is not stored by or used to train any of the models and no mixing of customer data occurs.

### Human intelligence & AI: the best of both worlds

While AI is a powerful tool to speed up the FMEA process, successful FMEAs rely on the niche engineering knowledge that exists within teams.

ReliaSoft Cloud ensures engineers remain in control, with AI acting as an assistive tool, rather than an autonomous system.

- **AI surfaces the insights; engineers make the decisions** – human-in-the-loop decision-making means engineers select and can modify any AI-generated suggestion. This ensures all inputs align with real-world engineering logic for higher-quality risk assessments.
- **Preventing AI errors** – AI can propose logical but sometimes irrelevant or inaccurate suggestions. To counter this, the workflow encourages engineers to evaluate each recommendation before inclusion to ensure they fit the current context.
- **Knowledge-driven efficiency** – AI does not replace human expertise; it enhances the brainstorming process by quickly presenting useful information from past FMEAs, reducing time spent searching for relevant data.

### Turning institutional knowledge into actionable insights

Brainstorming in FMEA isn't a standalone exercise – it's an ongoing, structured process. ReliaSoft Cloud's AI assistance integrates directly into this workflow, helping cross-functional teams:

- Retrieve relevant data from previous FMEAs effortlessly, ensuring past insights are leveraged, not lost
- Facilitates consistent descriptions across similar components and failure modes
- Identify potential risks or mitigation strategies the team may not have considered

ReliaSoft Cloud combines AI-driven insights with human expertise to accelerate brainstorming, reduce manual effort, and ensure continuous improvement across design processes – all while keeping engineers firmly in control of their FMEAs.

### Witness the power of AI in our demo

See ReliaSoft Cloud's AI-powered brainstorming capabilities for faster, more consistent insights in our deep-dive webinar – [skip to 30:56 to jump straight to the AI demo](#)<sup>→</sup>.

## RELIASOFT CLOUD: SMARTER FMEA MANAGEMENT FOR SEAMLESS COLLABORATION

ReliaSoft Cloud is transforming FMEA management, providing a fully web-based, AI-enhanced platform that makes risk analysis more efficient, collaborative, and insightful.

Designed for global teams, it removes the complexity of traditional FMEA tools, offering:

- **Centralised FMEA management** – create, view, and edit FMEAs in worksheet and tree views.
- **AI-powered brainstorming** – speed up risk identification with intelligent, knowledge-driven suggestions.
- **Personalised dashboards** – instantly access key insights and track risk reduction progress.
- **Flexible customisation** – manage and tailor FMEA types to fit your engineering processes.
- **Seamless collaboration** – work with global teams anytime, anywhere with secure, cloud-based access.
- **Scalable user management** – easily control active users and permissions.
- **Continuous innovation** – stay ahead with regular, automatic updates and feature enhancements.

## ABOUT HBK

HBK is a proven industry leader in FMEA and reliability engineering, providing engineers with the cutting-edge solutions and ongoing support they need to transform their processes. By choosing HBK, you benefit from the expertise of a trusted partner that is dedicated to supporting and advancing reliability methods of the future.

## GET STARTED WITH RELIASOFT CLOUD

**FMEA is just the beginning for ReliaSoft Cloud** – future expansions will bring even more reliability analysis applications to the platform.

[Contact the HBK sales team today](#) for more information, pricing, and a demo of how ReliaSoft Cloud can transform FMEA processes for your organisation.