Know the financial impact of vendor risk
Modeling for improved relational decision making
Don’t use a vendor risk solution that can only predict the past.

When confronting complex, relational risk in your supply chain, you need a solution that doesn’t just protect against the last threat. Complex Risk Analysis (CRisALIS) is an end-to-end, forward-thinking vendor risk quantification and decision solution that allows users to analyze risk data, understand vendor and supply chain risk trends, and make business decisions based on financial metrics.

CRisALIS can account for all of the complexity in vendor relationships, including: cyber, IT, business processes, geography, legal, compliance, and fourth party implications. And unlike legacy solutions, CRisALIS addresses the shortcomings associated with frequency-severity and relying on historical loss data for modeling.

Beware solutions using an outdated approach for modeling vendor risk:

- Frequency-severity modeling treats frequency and severity as independent variables, which is inappropriate for most operational risks
- Models that rely on historical loss data cannot account for the new risk that has not been captured by a past loss

CRisALIS solves the problems associated with outdated modeling:

- Driven by vendor information and external risk data, accounts for the interconnected way that vendor risk presents itself as both a specific risk category and introduces risk into your other risk types
- Accounts for your mitigation decisions as well as how risks propagate to create losses
- Provides decision makers and risk managers with a more accurate understanding of current vulnerabilities—as well as actionable recommendations for mitigation decisions and sophisticated predictions about potential future losses

How can CRisALIS help you?

**Clarity of complexity**
- Clarifies complexity for vendor risk in financial terms that are understood by boards and decision makers

**Future facing**
- Addresses the shortcomings of frequency-severity and reliance on historical loss data

**Prioritized mitigation**
- Identifies which risk controls are most effective at mitigating loss, creating the ability "test" and business case mitigation strategies

**Regulatory reinforcement**
- Demonstrates to the regulator that the firm is proactive in mitigating vendor risk

**Improved modeling**
- Addresses the shortcomings of frequency-severity and historical loss modeling

**Sophisticated assessment**
- Risk indication capabilities using data analysis tools that look for anomalies in data sets

**Tailored dashboards**
- Interactive reporting dashboards that quantify vendor risk and allow for "what-if" analysis

**Reputation protection**
- Real-time external data analysis to understand vendor public perception using AI and unstructured data

**Impactful analysis**
- Ability to identify the most impactful data for analysis (both vendor and external data)
About Milliman

Milliman is a leading consultant to the insurance industry, advising most of the world’s largest insurers.

We combine more than 70 years of risk expertise with advanced data analytics and market-leading technology solutions to help our clients:

- navigate increasingly volatile markets;
- drive product innovation and efficiency;
- protect assets from complex and interconnected risks;
- create groundbreaking solutions to some of society’s greatest challenges.

With offices across the globe, we have in-depth knowledge of the local regulations in every market we serve, and we actively invest in research to keep our clients one step ahead in a rapidly changing world.

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About Milliman

Every day, in countries across the globe, Milliman works with clients to improve healthcare systems, manage emerging risks, and advance financial security, so millions of people can live for today and plan for tomorrow with confidence.

To learn more, visit milliman.com/en/products/complexriskanalysis