

CASE STUDY

REVOLUTIONIZING RISK ASSESSMENT IN OPERATIONAL TECHNOLOGY

Verve's Calculated Risk Rating Helps a Top Food Manufacturer Prioritize and Act

SUMMARY

Challenged by the limitations of traditional NVD and CVE rating systems in assessing their specific OT vulnerabilities, a leading food manufacturer sought Verve's expertise. We developed the Calculated Risk Rating (CRR) framework, delivering actionable insights based on detailed data that reshaped their risk management—synchronizing it flawlessly with compliance regulations and strategic aspirations.

CHALLENGES

The client's understanding of risk in their Operational Technology (OT) environment was based on broad-brush approaches that lacked nuance, leading to a range of interconnected challenges:

LACK OF CONTEXT

Traditional risk assessment tools like NVD and CVSS offered limited contextual insight into the unique risks in their OT environment.

DIFFICULTY PRIORITIZING

Without nuanced data, prioritizing cybersecurity initiatives was challenging.

STRATEGY AND COMPLIANCE DISCONNECT

Traditional risk assessment approaches fell short in synchronizing with the client's strategic goals and compliance obligations.

AT A GLANCE



INDUSTRY

Food Manufacturing



COMPANY SIZE

Global Enterprise



LOCATION

Headquartered in the United States, with operations in over 150 countries and territories

CHALLENGES

- Difficulty in prioritizing cybersecurity initiatives
- Limited contextual insights from traditional risk assessment tools
- Compliance and strategic alignment

VERVE'S SOLUTION

- Developed a tailored approach to risk rating
- Integrated Exploit Prediction Scoring System (EPSS) for robust assessments
- Produced an actionable risk heat map

KEY OUTCOMES

- Achieved asset-specific risk understanding
- Enabled data-driven decision-making
- Improved strategic alignment with compliance requirements

SOLUTION: INTRODUCING CALCULATED RISK RATING (CRR)

Recognizing the gaps in traditional risk assessment methods for OT environments, Verve developed the Calculated Risk Rating (CRR) framework. This solution leverages two key metrics:

[LEARN MORE ABOUT CRR](#)
[DOWNLOAD THE WHITE PAPER](#)



CALCULATED IMPACT RATING (CIR)

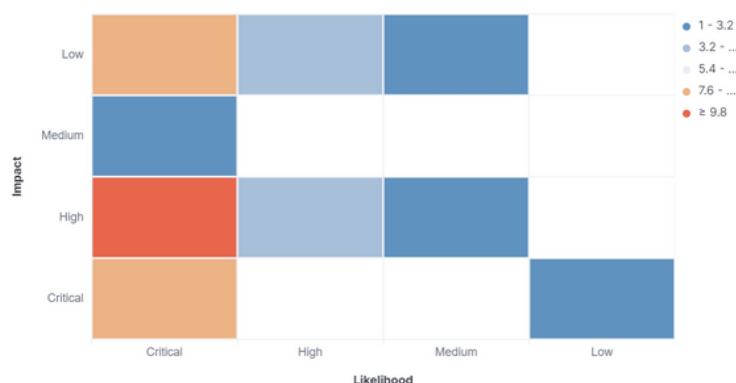
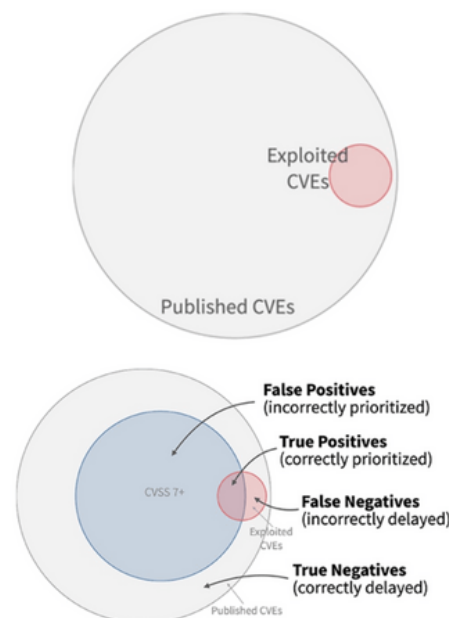
This rating quantifies the potential impact of each asset—be it site-specific, network-related, or hardware-focused—within the client's OT landscape. Assets are categorized and then rated on a scale, which turns nebulous concepts of risk into actionable data points.

EXPLOIT PREDICTION SCORING SYSTEM (EPSS)

To assess the likelihood of vulnerabilities being exploited, CRR integrates EPSS data. This system uses contextual information, such as real-world evidence, to refine the probability scores of a vulnerability being exploited in the next 30 days.

ACTIONABLE HEAT MAP MATRIX

By combining CIR and EPSS, the CRR framework creates a nuanced risk heat map. This heat map pinpoints critical areas that demand immediate attention, offering a more targeted approach to allocating resources for risk mitigation.



With this tailored approach, we succeeded in providing the client with a level of clarity and actionable insight that was previously unattainable, allowing them to identify, quantify, and prioritize risks more efficiently.

OUTCOME: ACTIONABLE INTELLIGENCE FOR TARGETED RISK MITIGATION

Though CRR is still in early development, initial feedback from the client suggests it has already positively impacted the client's approach to risk management, moving them from mere identification of vulnerabilities to a more dynamic, data-driven, and actionable form of risk management.

PERSONALIZED RISK ASSESSMENT

By incorporating asset-specific Calculated Impact Ratings (CIR), CRR has provided the client with a more contextual understanding of their cybersecurity landscape, thereby effectively overcoming the challenge of lack of context in their risk management practices.

DATA-DRIVEN DECISION MAKING

Through the integration of the Exploit Prediction Scoring System (EPSS), our CRR framework has added predictive analytics into the risk assessment mix. This has empowered the client to prioritize their vulnerabilities based on actual likelihoods, mitigating the previous difficulty in prioritizing risk.

COMPLIANCE AND STRATEGIC SYNERGY

The precision of the CRR heat map isn't just technical; it's strategic. The client can make decisions that align perfectly with internal objectives and external compliance mandates by laying out a data-driven risk landscape. This adds another layer of efficiency, ensuring every move is both regulatory sound and strategically savvy.

YOUR RISKS, VISUALIZED

Contact us to learn how CRR can redefine your risk management strategy.

[CONTACT US](#)

To learn more, visit www.verveindustrial.com or contact us at info@verveindustrial.com