CYBER RISK QUANTIFICATION WITH THREATCONNECT

SecurityScorecard has partnered with **ThreatConnect**, enabling you to translate cyber risk into monetary values and evaluate and prioritize security investment options. **ThreatConnect** analyzes data from **SecurityScorecard** to generate risk quantification outputs.

ThreatConnect automates the loss and likelihood modeling for the following attack types of using industry and machine learning driven data.

ThreatConnect

- Ransomware
- Data breach
- Distributed denial of service
- Destructive malware (Wiper)

RISK QUANTIFICATION OUTPUTS

- Financial impact Quantifies financial losses for a specific type of successful attack
- **Probability of compromise -** Quantifies the likelihood of an attacker bypassing the companies' defenses and causing material financial impact.
- **Predicted frequency** Quantifies the likelihood of losses occurring over time
- Loss types Breaks financial impact into source of loss, like ransomware payments, business interruption, and remediation costs
- **Risk mitigation impact** Quantifies the reduction in expected losses if issues like open ports, outdated browsers, or weak endpoints are resolved

Summary Impact range Estimated financial impac \$428.40V \$8.584 DDoS Ransomv 45.89% 46.34% 28.72% 46.34% dicted frequency in years Data breach DDoS Ransomwa 1 out of 10 1 out of 5 1 out of 3 Data breach DDoS Ransomware Wiper \$8 58M 1 attack every 5 years 46 34% requency, within a given nat a threat actor will attac ation. Computed with data an analysis of global attac Learn m Loss types Legal resource \$1.50M \$1.01M Revenue loss Reduce financial impact Factor Suggestion Reduce impact by (3) 90 → (3) 94 \$12.058 183 → 18 84 \$25.808

BENEFITS

LOWER YOUR CYBER RISK

Reduce the impact of cyber incidents prioritizing security investments towards the most likely or damaging loss scenarios

STRENGTHEN THE BALANCE SHEET

Direct capital towards the security enhancements that are most closely aligned with business goals and financial performance

IMPROVE COLLABORATION AND COMMUNICATION

Simplify the way cyber risk is discussed and communicated with your peers by defining it in business metrics

HOW SECURITYSCORECARD DATA IS USED BY THREATCONNECT

SecurityScorecard data provides a rich view into what an attacker sees when looking at a company, which informs the modeling the severity of an attack.

That information informs **ThreatConnect's** use of the MITRE ATT&CK framework to model an attacker's path and calculate the probability of compromise. Factor level scores from SecurityScorecard are mapped to various control frameworks supported by ThreatConnect (NIST CSF, CIS Top18, ISO 27001 and others).

These are then mapped to the MITRE framework to determine the effectiveness of a company's defensive configuration against different tactics, techniques and procedures.



THREATCONNECT MODEL CALIBRATION

ThreatConnect

ThreatConnect computes the financial impact of a cyber attack for an organization using loss data gathered from a variety of sources including commercial, open source, and proprietary content generated by its research team.

The different loss models are then calibrated using standard statistical analysis techniques (linear regression and machine learning) to determine attack frequency, probability of compromise, and expected losses.

THREATCONNECT MODEL VALIDATION

ThreatConnect loss models are validated against real world losses, and these models produce results that are within the expected values across industry, loss type and attack.

The **ThreatConnect** research team selects a range of events to validate against some of the well-known and well-documented attacks that have happened in recent years. Selected attacks are representative of most recorded losses from cyber attacks, as well as some of the infamous outliers that represent the extremes of historical losses.

ABOUT THREATCONNECT



ThreatConnect enables security operations and threat intelligence teams to work together for more efficient, effective, and collaborative cyber defense and protection. With **ThreatConnect**, organizations infuse threat intelligence and cyber risk quantification into their work, allowing them to orchestrate and automate processes to respond faster and more confidently than ever before. Nearly 200 enterprises and thousands of security operations professionals rely on **ThreatConnect** every day to protect their most critical systems.

Learn more at www.threatconnect.com