



SecurityScorecard

Cyber Ratings: Partnering with Your Suppliers to Defend the Extended Attack Perimeter

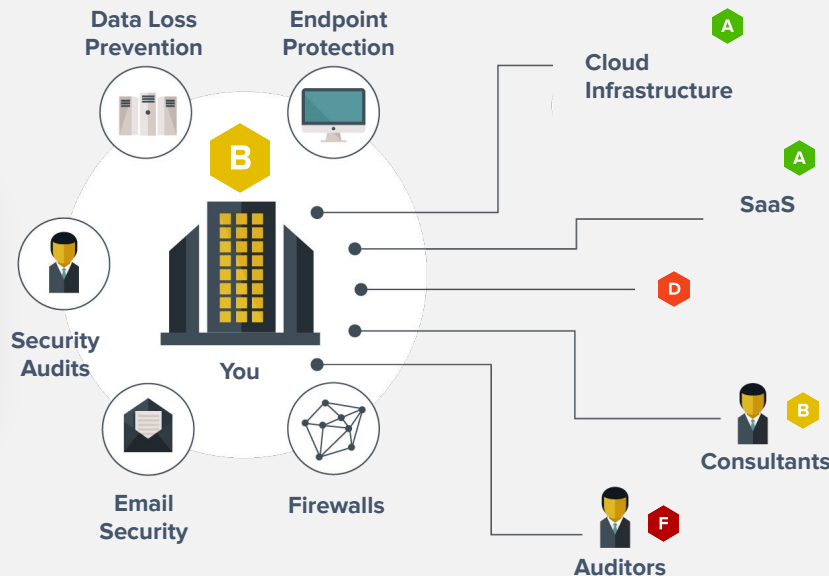
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Oct 12, 2021

Cyber Ratings: What + Why

There is no gold standard to measure and communicate security performance

How do I understand and communicate the value of my security program?



How do I know if my third parties are diligent about protecting the data?

53% of organizations have experienced one or more data breaches caused by a third party (Ponemon Institute)

How Ratings Work

How Ratings Work

1 Data Collection

- **Global sensor network** crawling the Internet from over 45 locations
- **25B+** vulnerabilities gathered per week and **500M+** malware infections per day (top 5 sinkhole)

2 Attack Surface Discovery

- Patented capabilities discover company attack surface
- Attribution of attack surface to any organization worldwide

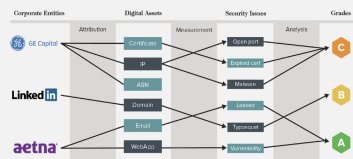
3 ML-Powered Data Processing

- Data processing engine aggregates signals to enhance accuracy
- Hundreds of risk factors over 10 security categories
- **ML based risk severity** model that learns from user feedback

4 Ratings

- **Fair, accurate, and predictive scoring model** with low scores 5x-7x more likely to breach
- **7 years** of historical data + user contributed data

Automated Attack Surface Discovery Engine

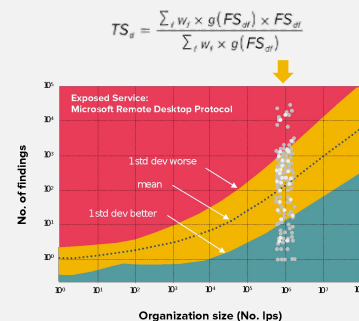


U.S. Patent No. 10,560,474

"Entity IP Mapping"

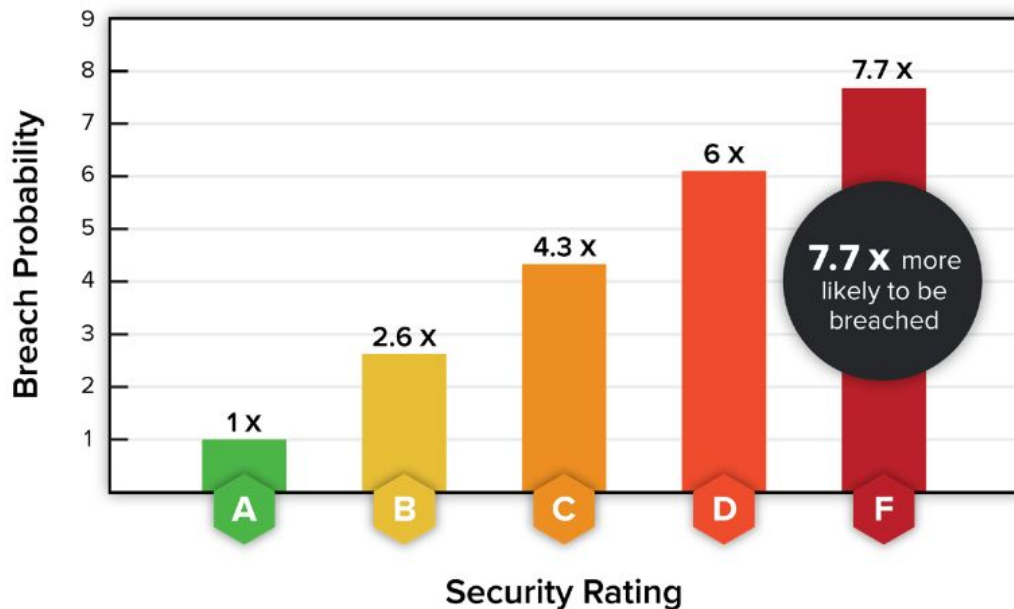
U.S. Patent No. 10,515,328

"Non-intrusive techniques for discovering and using organizational relationships"



Meaningful Correlation with Breach Risk

Companies with a higher SecurityScorecard rating are less likely to sustain a data breach



Organizations with an F have **7.7x higher likelihood of breach** compared to organizations with a grade of A.

Study Parameters

Evaluation Period	3 Years
No. Data Breaches	2,228
No. Organizations	99,076

Supply Chain Use-Case

The Third Party Challenge

- Build vs. Buy decision has been made
 - Companies buy + outsource whenever possible
 - Average company relies on hundreds, if not thousands, of Vendors
- Vendors become extension of our attack perimeter when we:
 - Provision network access
 - Share sensitive data
- We don't have the continuous visibility into + control over 3rd party security



Third Party Attack Trends

- Attackers Target Company's Third Parties vs. Company directly
 - Exponential increase in entry points + potential attack vectors
 - Soft spots result from varying degrees of cyber competency
- Compromise Company via Third Party Privileges
 - Phishing Attack, Compromised Credentials, Remote Updates
- Third Party attacks ramping in terms of frequency and impact
 - SolarWinds, Colonial Pipeline and Kaseya

Challenges with Current VRM Approaches

- We use static measurements - cybersecurity is dynamic
- Outputs are subject to bias + self-serving outcomes
- Manual + human processes are plagued by human error
- Activities are time consuming + have in-person requirements
- Methods are expensive + lack scalability

Traffic Cop

- Map component of Rating to an Assessment Activity
 - EG. Top Level score and Questionnaire
- Create threshold that triggers activity + only trigger when crossed
 - EG. only send questionnaire if Top Level score falls below C
- Tailor activity to focus on findings or factors that tripped threshold
 - EG. If CVEs brought score below C, ask questions re: patching
- Right-sized, just-in-time Assessment Activities - avoid unnecessary

Collaborating + Engaging with Suppliers

- Invite Vendor to platform + to claim their scorecard
- Establish SLAs to govern relationship + embed in contract
 - Minimum grade requirement + "No-Go" issues list
 - Remediation window for raising score + addressing issues
- Use rules + alerts to monitor for compliance and automate responses
- Track remediation progress + ensure compliance via History view

Automated Backlog Prioritization

- Organization has large vendor assessment backlog
- No time to perform inherent risk assessment that informs prioritization
- How do we ensure prioritization of High Critical + low security vendors?
- Sort backlog using grades (low to high) – asses low score vendors first
- Instant + low effort prioritization that guarantees prioritization goals

Streamlined Assessments

- Establish grade requirement for a supplier (must be above C)
 - Tailor requirement based on use-case + supplier type
- Pass / Fail supplier based on performance against requirement
- Leverage for high-volume + early stage assessments (RFP)
- Leverage for low risk suppliers (tailor effort to asses with risk posed)

Additional Ratings Use-Cases

Ratings Use-Cases



Executive Level
Reporting



Enterprise Risk
Management



Third Party Risk
Management



Due Diligence



Service Providers



Compliance



Cyber Insurance

Regulatory Compliance Gap Analysis, Monitoring and Enablement for First and Third Parties

- Identify controls that can be assessed from outside
 - *Does organization have patching program?*
- Map controls to relevant issue(s) in platform
 - *CVEs imply weak or missing program*
- Perform gap analysis against framework
- Identify remediations required for compliance
- Continuously monitor compliance on ongoing basis

Supported Frameworks:

- CMMC
- PCI
- GDPR
- HIPAA
- ISO
- NIST (800-171, 800-53, 1.1)
- NERC
- NY DFS
- SIG (Core, Full & Lite)
- TISAX

Enterprise “Self-Monitoring”

- Identify and track publicly facing assets - manage shadow IT
- Quantify and contextualize security issues using NIST
- Leverage IP-Level detail to drive remediation and automation
- Build dynamic + automated remediation plans via grade requirements
- Use grades to report to stakeholders + non-tech audiences (BOD)

ISACA-LA Member Offer

- All members entitled to Complimentary Enterprise Starter License:
 - Continuous Monitoring of own Organization
 - Continuous Monitoring of up to Five Third Parties
 - Existing Customers receive Five complimentary “Slots”
- Access to dedicated SecurityScorecard Customer Success Manager
- Preferred pricing on select Slot + Atlas bundles
- Sign-up via www.securityscorecard.com/isaca-la

Questions?

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Thank You!