



BitSight Security Ratings





Trends

Increasing governance and assurance required



Subsidiary Risk Management Third Party Risk Management

Benchmarking

Fourth Party Risk Management

Insurance

Cyber Security Risk

Mergers & Acquisitions

Cyber Risk is Increasing





CYBER INCIDENTS CONTINUE TO INCREASE

- Volume (# of attacks)
- Speed of attacker
- Sophistication of attacker

THE TARGETS ARE BROAD

- 1st party
- 3rd party
- Nth party

THE DAMAGE IS SEVERE

- Financial loss
- Reputational harm
- Legal liability
- Operational disruption

Market Conditions



BOARD EXPECTATIONS

of organizations will report to the board on cyber risk at least 1x / year, by 2020

91% of board members can't interpret cybersecurity reports

REGULATORY ENVIRONMENT



Oversight Continues to Increase

GDPR FFEIC HK CFI

DFAR NY DFS NIST

BUSINESS IMPACT

vendors granted access to a company's network per week

of all breaches linked directly or indirectly to 3rd parties

MARKET IMPACT

\$100B will be spent in 2020 on information security worldwide

\$10B in estimated cybersecurity insurance premiums by 2020

\$2T cyber crime costs by 2020







The power of objectively measuring cybersecurity performance....

What would it enable for YOU?

Key Questions



How do diverse stakeholders have a sensible conversation about Cyber Security?

- Language Risk posture vs. vulnerability checklist? Impact vs. events. Non technical language
- Consistency of measurement Absolute and relative, Universal Metrics Standard across a critical mass of organizations
- Business Context What is in it for me? How to relate cyber security to business
- Outcome vs activity Results rather than effort
- Objective versus subjective Data centric but in context

BitSight brings data-driven efficiency and automation to the cyber risk evaluation process by providing a **COMMON METRIC** (ratings) to be used in a cyber risk decision framework:

The Key Questions



Who are the consumers of Cyber security information?

- The Board
- Procurement
- Compliance
- Vendor Risk Management
- Audit
- Operational Risk
- CISO Info Sec Cyber security
- Business process owners
- Supplier Managers
- CIO / CRO

Common Language

Different perspectives / context

Subject to specific risks

BitSight Security Ratings Enable Measurement



BITSIGHT

BOSTON, MA

HEADQUARTERS

450+

EMPLOYEES

\$150M+

CAPITAL RAISED FROM BLUE CHIP INVESTORS

EXPERIENCED

LEADERSHIP TEAM WITH RECORD OF GROWING SUCCESSFUL COMPANIES

GLOBAL

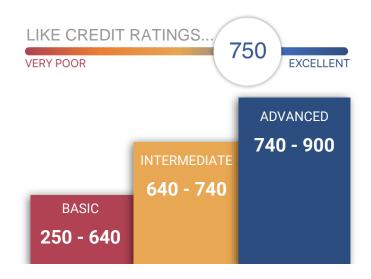
OFFICES IN SINGAPORE, LISBON AND RALEIGH

2011

FOUNDED

BitSight Security Ratings

- Data-driven rating of security performance
- Non-intrusive SaaS platform
- Continuous monitoring
- · Objective, quantitative measurement



THE LARGEST, MOST ENGAGED ECOSYSTEM

1,500+

Customers Worldwide 25,000+

Users

20,000+

Ecosystem
Comments & Tags

160,000+

Monitored Organizations

105,000+

Pieces of User-Generated Content 15M+

Domains

How do security ratings help?

BitSight Security Ratings:

- Provide a <u>measurable range of risk</u>
- The only ratings solution with a <u>third party verified</u> correlation to breaches.
- <u>Data-driven</u> rating of security performance
- Non-intrusive SaaS platform
- Continuous monitoring with 12 month history
- Active Oversight AT SCALE



Strong, Validated Correlation to breach



If the security rating drops below 400 as compared to an organization with a 700 or higher

3x

If 50% of computers run outdated <u>Operating</u>
<u>System</u> versions

2x

If the <u>Botnet Grade</u> is **B or lower** or the <u>File Sharing</u> grade is **B or lower** or the <u>Open Ports</u> grade is **F**

Security ratings are an objective, continuous, external measure of an organization's overall cyber security posture

3 levels of information – tailored for stakeholder needs



Security Rating - Overall Cyber Risk posture rating

VERY POOR 750 EXCELLENT



Dashboard, Management reports 'view from the bridge', trending

2 Risk Vectors – Rating for groupings of like events

Diligence

Compromised Systems		Diligence		
(3)	SPF Domains	F		
D	DKIM Records	C		
A	TLS/SSL Certificates	(F)		
	D	F SPF Domains D DKIM Records		

Compromised Systems



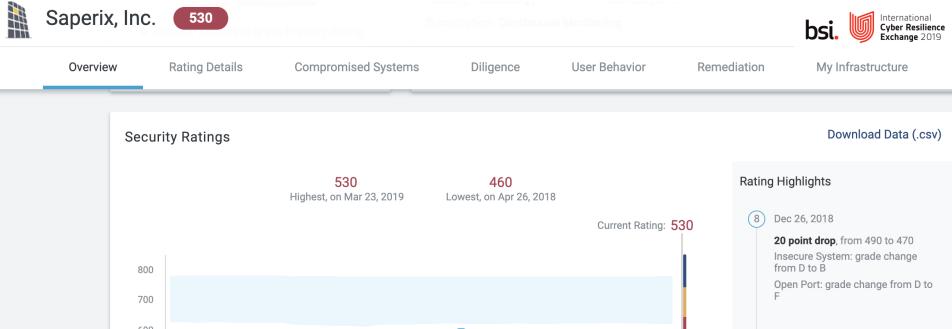
Risk hunting, thematic reviews, Audit selection + scoping Operational reports

3 Events – specific incidents or vulnerabilities

Port	Total Hosts	Grade Distribution	Service
21	2		Detected service: FTP with AUTH TLS and 1 other service
22	10		Detected service: SSH and 1 other service
23	3		Detected service: Telnet



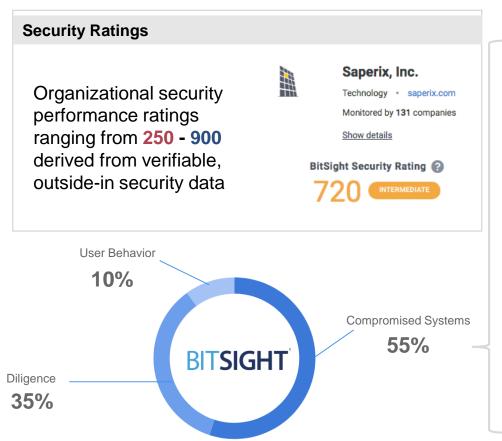
Remediation, preparation for on-site audits
Activity reports





Translating Security Data into Actionable Ratings

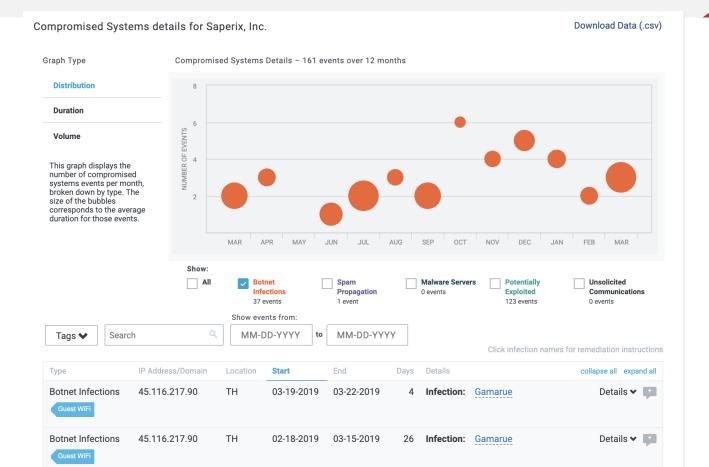




Risk Vector Factors	within	Ratings	
Compromised Systems		Diligence	
Botnet Infections	D	SPF Domains	A
Spam Propagation	A	DKIM Records	G
Malware Servers	A	TLS/SSL Certificates	D
Unsolicited Comm.	A	TLS/SSL Configurations	C
Potentially Exploited	G	Open Ports	B
User Behavior		Web Application Headers	G
File Sharing	A	Patching Cadence	G
Exposed Credentials **	N/A	Insecure Systems	A
		Server Software	B
Public Disclosures		Desktop Software	D
Breaches	A	Mobile Software	N/A
Other Disclosures*	N/A	DNSSEC*	C
		Mobile Application Security*	N/A
		Domain Squatting **	N/A

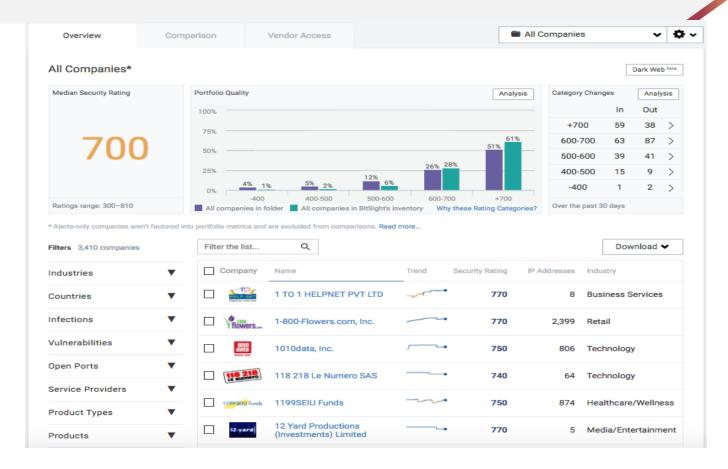
Botnet event detail







Measuring Performance Across a Large Portfolio



Better Data Enables Smarter Prioritization of Risk



Vendor Tiering enables quick identification of critical vendors with issues



... and **Asset prioritization** provides context on the most pressing issues facing these critical vendors



Other ratings providers cannot provide the extensive visibility of security issues (see previous slide) or business critical assets (no API, mail server, or database visibility) meaning customers don't get the most comprehensive view of the most important issues facing their most critical vendors.

Leading Organizations Use BitSight



20%

40+

50%

of Fortune 500 companies use BitSight

of the top 5 Investment Banks use BitSight for Vendor Risk Management

government agencies, including US and Global Financial Regulators, use BitSight

of the Big 4 **Accounting Firms** use BitSight

of the world's cyber insurance premiums are underwritten by BitSight customers

1,500+ CUSTOMERS ACROSS THE GLOBE



BERTELSMANN



BNP PARIBAS

























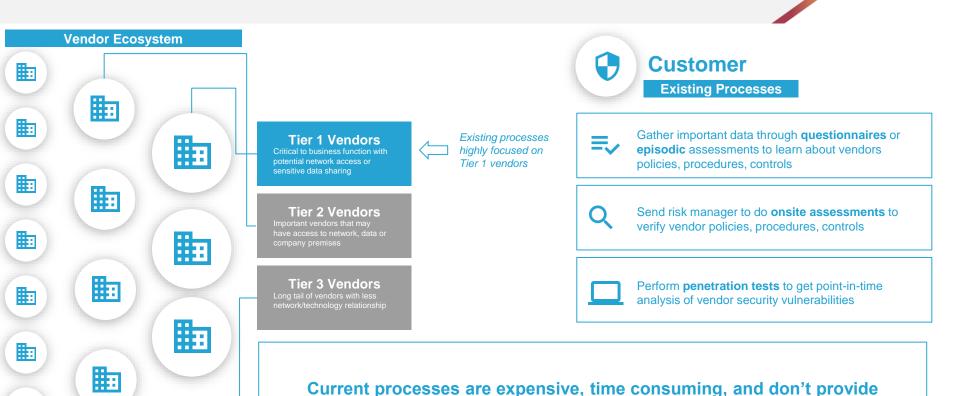


BITSIGHT

Third Party Risk Management

TPRM: Customer Pain Points



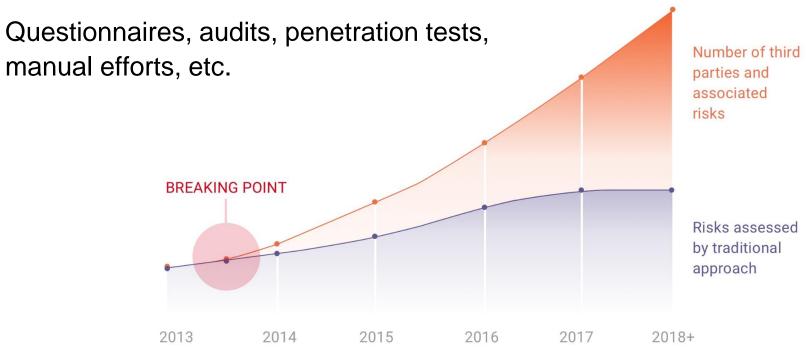


continuous visibility across an organization's entire ecosystem of vendors.

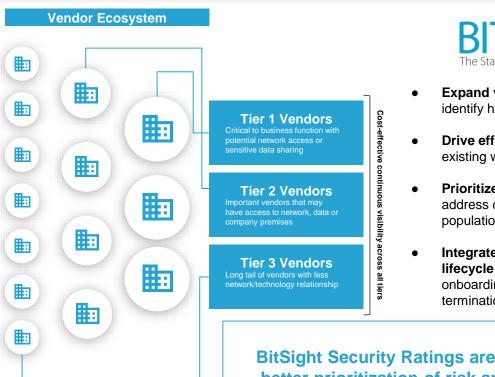
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Cyber Security Challenge

Difficult to scale traditional approaches:

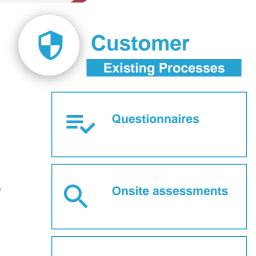


BitSight Value in TPRM Program





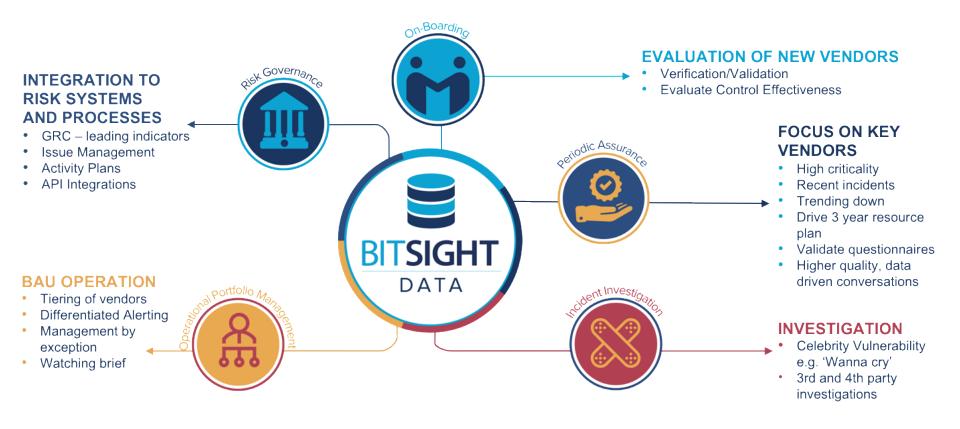
- Expand visibility across all vendors to identify highest-risk vendors
- Drive efficiency and automation across existing workflows and processes
- Prioritize action and allocate resources to address dynamic risks across vendor population
- Integrate ratings data throughout vendor lifecycle processes including selection, onboarding, ongoing monitoring and termination



Penetration tests

BitSight Security Ratings are a cost-effective, data-driven metric that enables better prioritization of risk and allocation of resources to make effective risk decisions within an organization's TPRM program

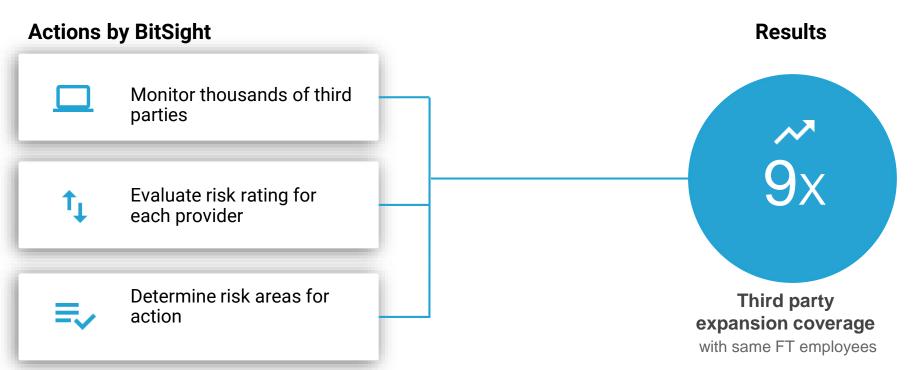
BitSight TPRM



Third Party Monitoring Produces Measurable Results at Scale for



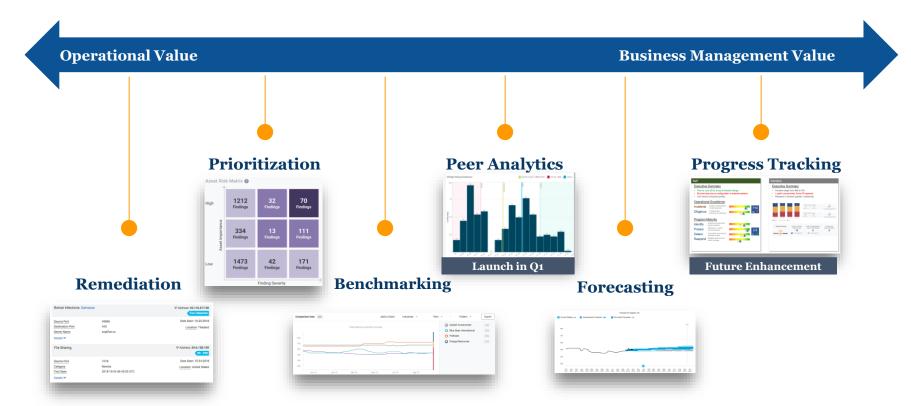
Goal: Monitor the information security disposition of critical third party service providers





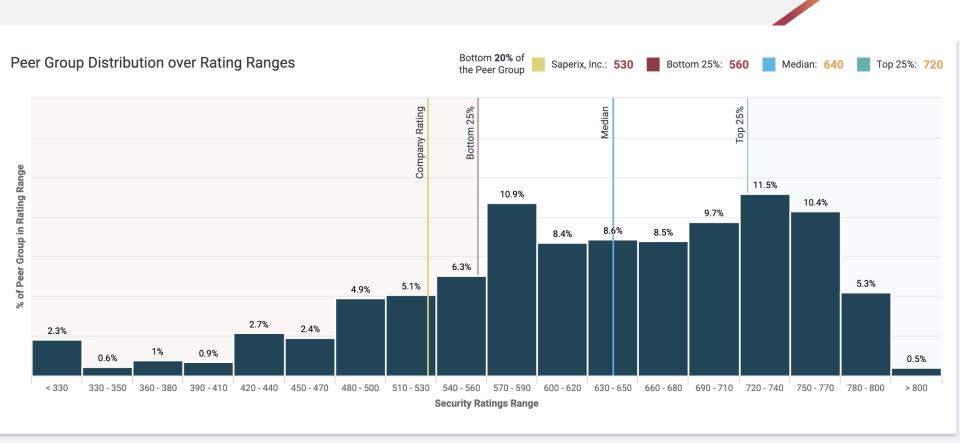
Security Performance Management

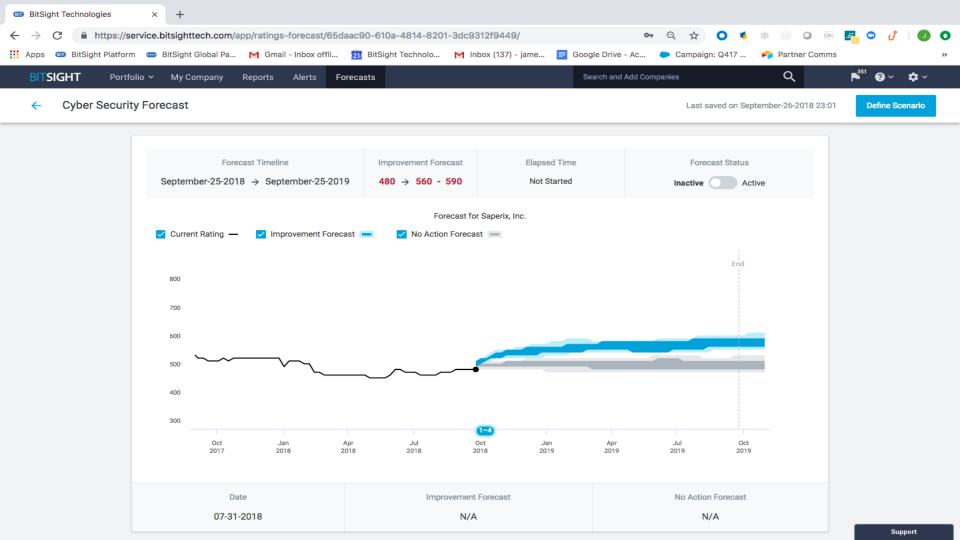
Security Performance Management Capabilities



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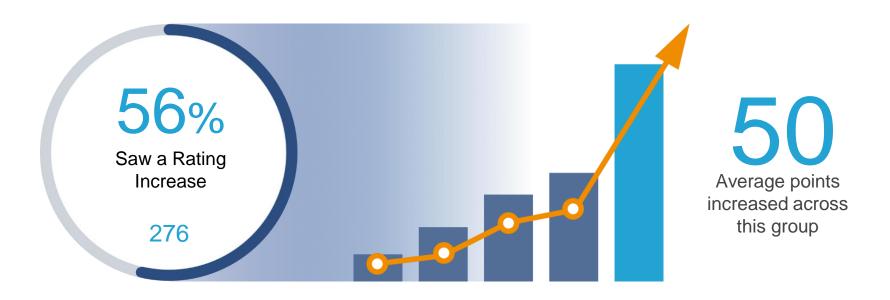
Peer Analytics





One Example of Impactful Results from Vendor Collaboration

Onboarded 496 suppliers and engaged with BitSight Security Ratings as part of this process



How BitSight Security Ratings are Calculated

