

RSA®Conference2019 **Asia Pacific & Japan**

Singapore | 16–18 July | Marina Bay Sands



BETTER.

SESSION ID: HPS-W02

You Can't Improve What You Don't Measure

DeWayne Hixson

Director
Walmart Global Information Security



#RSAC

Data –vs– Information



Walmart, a Tech company?...

And what do they have to do with CyberSecurity?



Walmart INTERNATIONAL

Our Data Today



2018 InfoSec Statistics

+6 Trillion

Cyber Events

+13.9 Billion

Blocked Cyber
Attacks

+2 Billion

Blocked Spam
Emails

+230 Million

Malware
Alerts

+275

Security Products
Supported

+450,000

Endpoints
Protected

+1.4 Billion

Lines of Code
Reviewed

+2.5 Million

User Accounts
Managed

+5.1 Million

Vulnerabilities
Remediated

+2.3 Million

Certificates
Issued

+4 Million

Unwanted/Malicious
Block Web Requests

+12 Million

2-Step
Authentications



Walmart INTERNATIONAL

RSAC Conference 2019
Asia Pacific & Japan



Turning Data into Information, our Journey Begins



How are the International Markets Doing



Who is doing Best

Who is doing the Worst

What should they be focused on

Beyond Critical Items we
Had to Rely on “Gut Instinct”



The grid displays 22 slides, each representing a different market or a summary slide. The slides are numbered 1 through 22. Most slides (1-18) are 'InfoSec Global Market Enablement International Markets Score Cards' for various countries and regions, including: 1. InfoSec Global Market Enablement International Markets Score Cards, 2. InfoSec Market Engagement, 3. Score Card Legend, 4. Executive InfoSec Score Card Week 34, 5. Argentine InfoSec Score Card, 6. Brazil InfoSec Score Card, 7. Brazil eCommerce InfoSec Score Card, 8. Canada InfoSec Score Card, 9. Central America InfoSec Score Card, 10. Chile InfoSec Score Card, 11. China InfoSec Score Card, 12. Global Sourcing InfoSec Score Card, 13. India InfoSec Score Card, 14. Japan InfoSec Score Card, 15. Mexico eCommerce InfoSec Score Card, 16. Mexico InfoSec Score Card, 17. Mexico eCommerce InfoSec Score Card, 18. Mexico eCommerce InfoSec Score Card, 19. United Kingdom InfoSec Score Card, 20. Important Dates, 21. InfoSec Score Cards Coming Soon, and 22. InfoSec Global Market Enablement. The slides feature various charts, tables, and text, often with a 'Coming soon' watermark.





Time for Dashboard Progression

- **Style it for a Growing Audience**

- Though we tried not to drown them in data by creating arbitrary (at first) metrics so there was instant context, Then our audience grew...

- **Prioritize to Show Most Important First**

- Heavy emphasis on vulnerability management...

- **Give a top 3 list of what they need to do**

- Simplify the message for Quick read for Execs... or short attention span associates



RSA[®]Conference2019 **Asia Pacific & Japan**

We Followed the tried and true 3-Step approach

- **Measure**
- **Compare against a metric**
- **Benchmark against others**

Measure



Compare Against a Metric



Steps for successful dashboarding

Benchmark against others – in 2 ways

- Aligning with trusted agents and companies.
 - Ensuring industry best practices
- Inspire some healthy competition among owners of action items.
 - Since most companies are list-driven, and nobody wants to be at the bottom, it is often true that rank ordering is an extremely effective tool in getting the undivided attention of executives...and immediate action from their subordinates. Accountability is key!





RSA®Conference2019 **Asia Pacific & Japan**

Putting it into Action and Following Through



Int'l InfoSec Dashboard Progression

OVERALL ACTIVE ISSUES

X%

(Green = ≤5% Overdue Active Vulnerabilities)

Period	Last Week	Current Week	Trend w/w
On Track	X	X	↑
At Risk	X	X	↓
Overdue	X	X	↓

OPEN VULNERABILITIES BY TYPE

X%

(Green = ≤25% Open High findings with 0 Critical)

Period	Last Week	Current Week	Trend w/w
Critical	X	X	→
High	X	X	↑
Medium	X	X	↑

REMEDIATED VULNERABILITIES (PEN TESTS, SCANS, ETC. ONLY)

(Green = Current week > previous week total)

Period	Last Week	Current Week	Trend w/w
Critical	X	X	→
High	X	X	↑
Medium	X	X	↓

OVERDUE VULNERABILITIES BREAKDOWN

X%

(Green = 0 Open PCI Vulnerabilities)

Period	Last Week	Current Week	Trend w/w
Bug Bounty Program	X	X	↑
Data Discovery Scanning	X	X	→
General Vulnerability - Pen Test	X	X	→

VULNERABILITIES AGING

X%

(Green = ≤33% due within 30 days with 0 Critical)

Due Within	< 30 Days	30 - 60 Days	60+ Days
Critical	X	X	X
High	X	X	X
Medium	X	X	X

SOX FINDINGS

(Green = Current week < previous week total)

Period	Last Week	Current Week	Trend w/w
Critical	X	X	→
High	X	X	→
Medium	X	X	→

MARKET ESCALATIONS

(Green = Current week < previous week total)

Period	Last Week	Current Week	Trend w/w
Escalations	X	X	→

OPEN ISO FINDINGS

(Green = 0 Open PCI Vulnerabilities)

Period	Last Week	Current Week	Trend w/w
Total	X	X	↑

INFOSEC EVENT DATES

Product/System	Due Date
2 Factor Authentication	XX-XXXX
Password Vault	XX-XXXX

DATA LEAK PREVENTION

(Green = Current month ≤ previous month total)

Period	Last Month	Current Month	Trend w/w
Total	X	X	↓

OVERALL ISO SCORE

(Green = Current year > previous year total)

Period	Last Year	Current Year	Trend w/w
Total	X%	X%	↑

NO UPCOMING EVENTS

UN-MANAGED DEVICES

(Green = Current week < previous week total)

Market	Device Count
Total	X

SRCR OVER 90 DAYS

(Green = Current week < previous week total)

Stage	90+ Days Old
Total	X
Initial Review	X
Action Requirements	X

Overall Active Issues

Trend Type	Last Week	Current Week
ON TRACK	X	X
AT RISK	X	X
OVERDUE	X	X

Last Week - Active Issue | Current Week - Active Issue

Open Vulnerabilities By Type

Risk Rating	Last Week	Current Week
CRITICAL	X	X
HIGH	X	X
MEDIUM	X	X

Last Week - Open Vulnerabilities | Current Week - Open Vulnerabilities

Overdue Vulnerabilities Breakdown

Report Name	Last Week	Current Week
PCI - Pen Test	X	X
General Vulnerability - Scans	X	X
General Vulnerability - Pen Test	X	X
Bug Bounty Program	X	X
General Vulnerability - Whitehat Sec	X	X

Last Week - Overdue Vulnerabilities | Current Week - Overdue Vulnerabilities

Vulnerabilities Aging

Risk Rating	< 30 Days	30 - 60 Days	60+ Days
CRITICAL	X	X	X
HIGH	X	X	X
MEDIUM	X	X	X

0-30 Days - Active Issue | 30-60 Days - Active Issue | >60 Days - Active Issue

Market Escalation

Last Week	Current Week
X	X

Last Week - Market Escalation | Current Week - Market Escalation

DLP Escalation

Last Week	Current Week
X	X

Last Week - DLP Escalation | Current Week - DLP Escalation

ISO Score

Last Year	Current Year
X	X

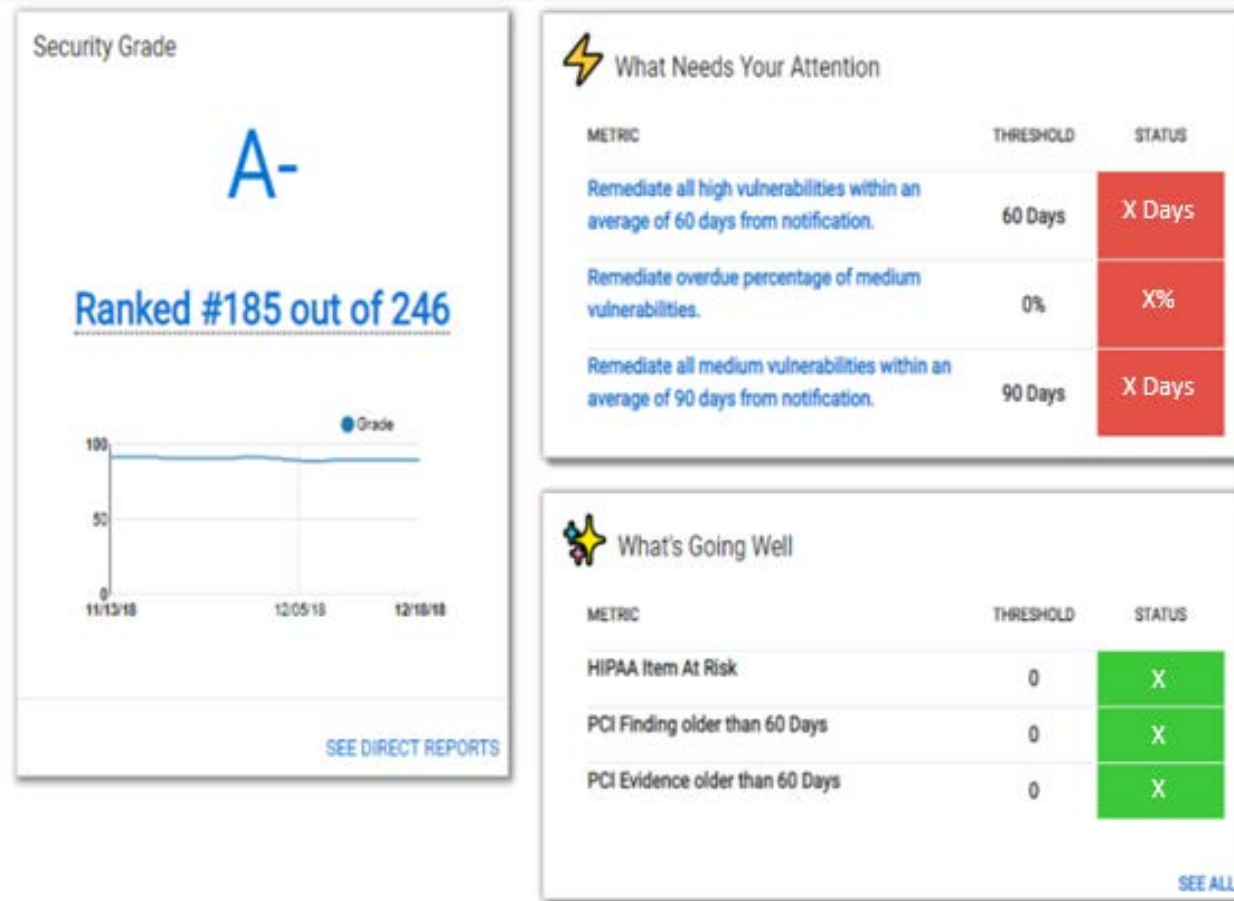
Last Year - ISO Score | Current Year - ISO Score

ISO Findings

Last Week	Current Week
X	X

Last Week - ISO Finding | Current Week - ISO Finding

Simple and Efficient Executive view



Apply What You Have Learned Today

- Next week you should: Know how you are measured
 - Explore what reporting you have in place for InfoSec, are the metrics create clear, measurable and objective?
- In the first three months following this presentation you should:
 - Understand the reporting and ensure there are clear actionable items
 - Question any sections that don't add value or the lack of information
- Within six months you should: “Expect what you Inspect”
 - Align with key leadership to get their input, does the reporting work for them, adjust as needed.
 - Keep it relevant and “Check your Filters”
 - Continue to Drive Accountability at all levels of your organizations.



RSA[®]Conference2019 **Asia Pacific & Japan**

Contact Information:

DeWayne Hixson

Find me on LinkedIn or

DeWayne.Hixson@Walmart.com