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The Measure of Success: Security Metrics to Tell Your Story

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Connect **to** Protect

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How to Tell Your Story



- Audience
- What Good Looks Like
- Responsibility and Accountability
- Data Availability
- Single Source of Truth & Repeatability
- "As Is" State
- Frequency

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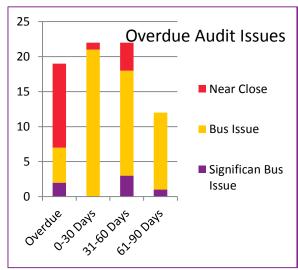


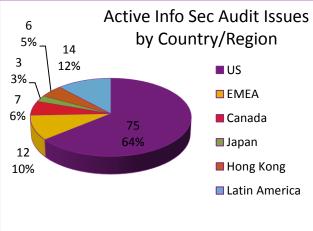


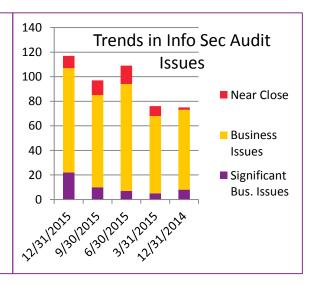




Information Security Audit Issues

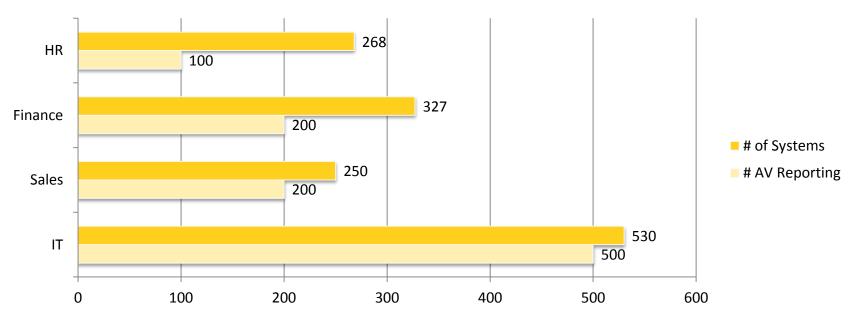






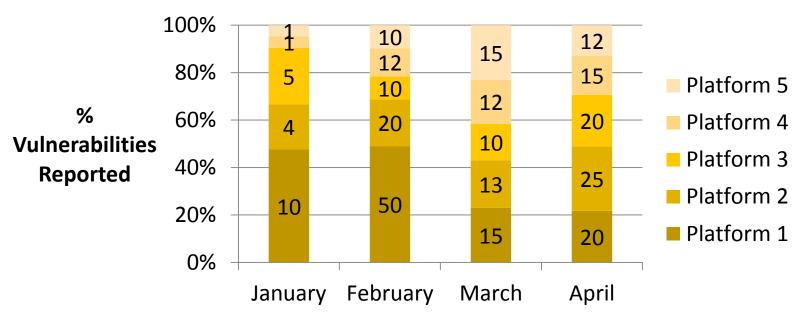


Anti-Virus Coverage

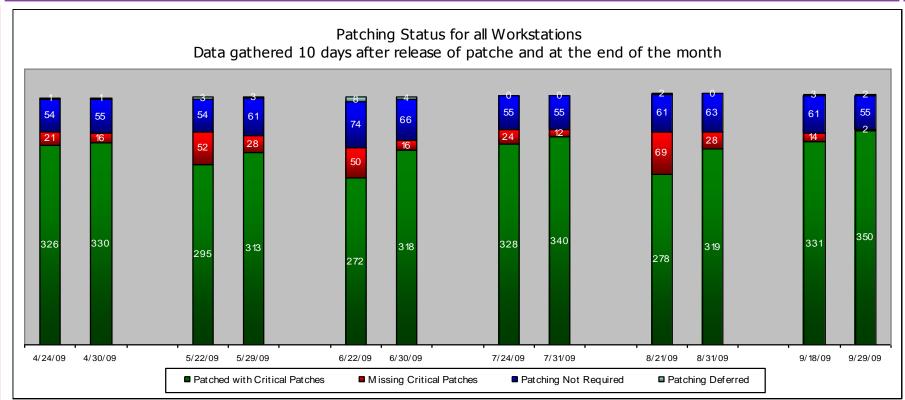




Platform Vulnerability Distribution

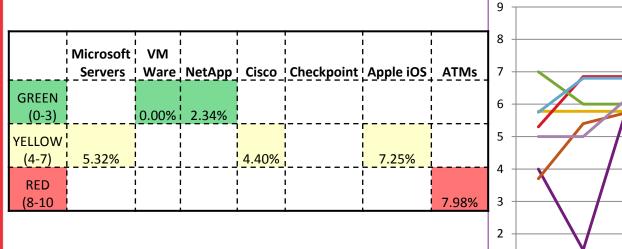




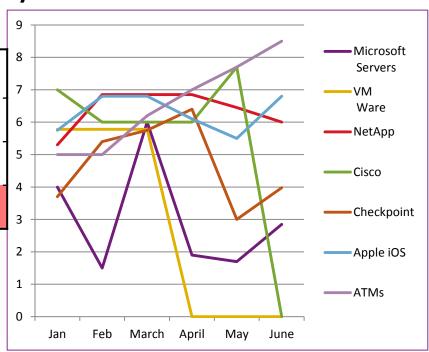




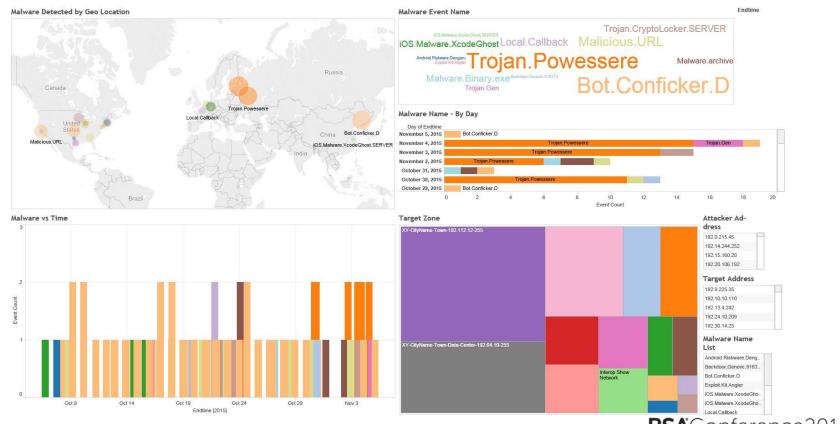
Patch Management Risk by Platform*



*Data is not actual



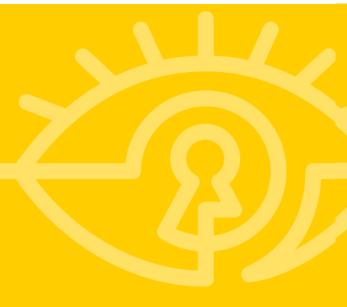




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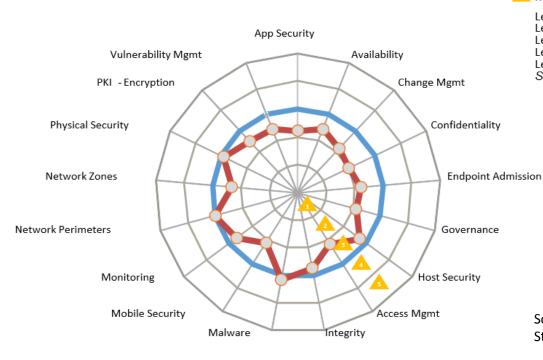








Security Assessments Conducted 2011 through 2014 Over 40 Agencies comprising over 80% of State FTEs



Maturity Level Definitions

Level 1: Initial/Ad Hoc Level 2: Developing/Reactive Level 3: Defined/Proactive

Level 4: Managed Level 5: Optimized Source: Gartner

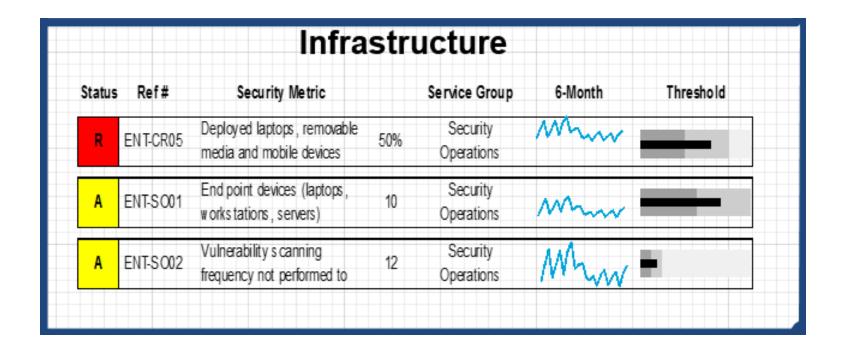
Due Diligence Standard
State of the State

Source: The State of Texas; State of the State Report, Jan. 2015

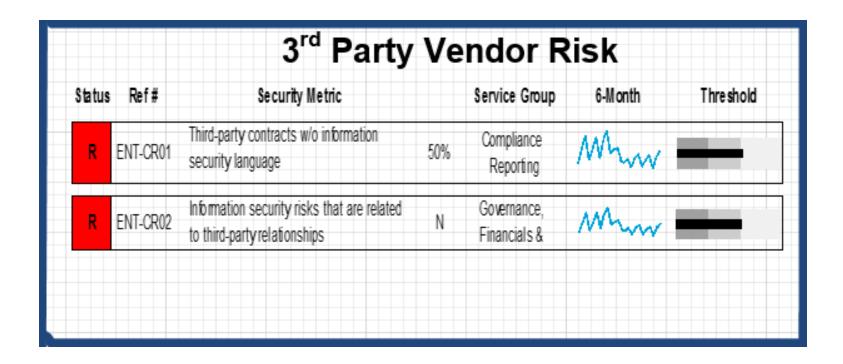


Status	Ref#	Security Metric		Service Group	6-Month	Threshold
R	ENT-CR03	Critical information assets / systems where identified compliance requirements	75%	Security Operations	Mm	-
R	ENT-CR06	Unresolved legal and/or regulatory IT/IS focus ed issues (aging list)	50%	Security Operations	Mhm	-
Α	ENT-GF03	Unresolved critical internal IT / IS focused audit is sues (aging list)	10	Security Operations	Mm	-

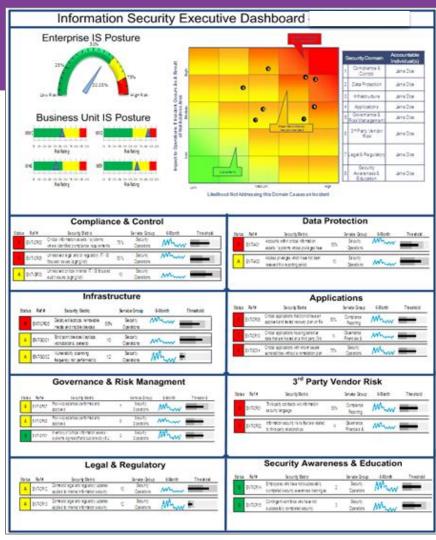








Dashboard

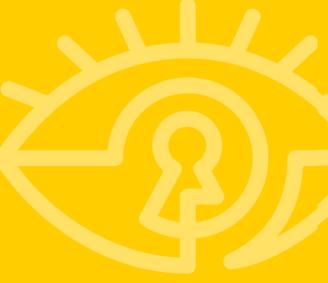




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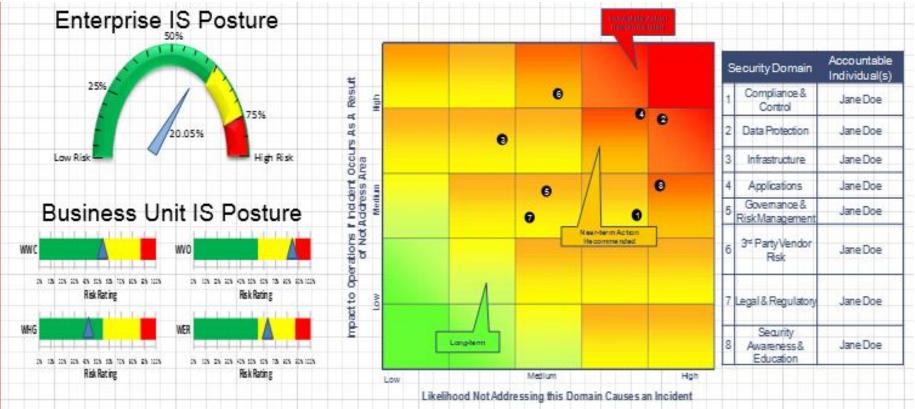






Board Reports - Dashboard





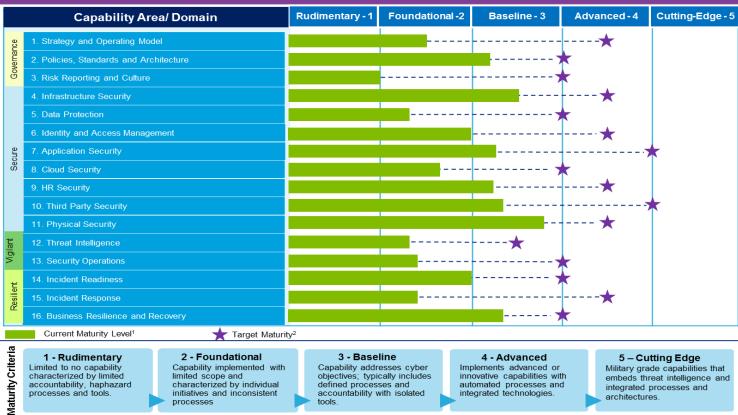
Board Reports - Dashboard



#	Key Cyber Risk Metrics	Risk Tolerance		Value				Trend	
		Warning	Breach	Q1 2013	Q2 2013	Q3 2014	Q4 2014		
1	# of Severity 1 Cyber Risk Incidents	2	3	4	2	2	2	Steady	
2	Financial Impact (\$MM) Attributed to Severity 1 or 2 Incidents	\$2.5	\$5	\$6.2	\$3.5	\$1.3	\$1.8	Worse	
3	# of Tier 1 Institutional Clients Impacted by a Severity 1 or 2 Incident	5	12	28	11	4	4	Steady	
4	# of Retail Gold Clients Impacted by a Severity 1 or 2 Incident	50K	250K	0	0	18K	28K	Worse	
5	Open Regulatory MRIAs, MRAs	3	10	8	7	6	5	Better	
6	Open Severity 1 Audit Issues	5	8	9	8	6	6	Steady	
7	# of Open High Risk Self-Identified Issues	5	10	3	3	3	4	Worse	
8	# of Hours of Severe Service Degradation	10	20	18	11	15	9	Better	
9	# of Key Open Cyber Risk Positions Not Filled within 120 Days	3	5	0	0	2	1	Better	
10	% of Tier 2 Metrics that are Not Green	10	20	11	13	10	9	Better	
trics w	ithin acceptable thresholds	Metrics above th	trics above threshold			- Metrics significantly above thresholds			

Board Reports – Program Maturity





Board Reports - Measures



- Current threats to business
- Security program strategy
- Key trends in cybersecurity
- Performance against goals & objectives
- Exposure to key 3rd parties

- Spending vs. priorities
- Meeting internal standards
- Security initiatives supporting business objectives
- Management/staff experience
- Tracking key projects

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Applying These Examples



- Next week you should:
 - Identify your audience, their concerns/values, and their language
 - Determine responsibility and accountability
 - Define the metrics that are important to your organization
 - Start somewhere and improve as needed

Applying These Examples (cont'd.)



- In the first month following this presentation you should:
 - Agree on what "Good" looks like
 - Determine data sources, availability, and repeatability
 - Develop the metrics, KPIs, and KRIs that best align with your objectives
- Within six months you should:
 - Design a package of reports for senior committees and the board
 - Determine reporting frequency