Is your Organization ready for a risk management program?

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Lake Riskbegone

Where all the likelihoods are low, all the loss tables are populated & all the risk analysts are two standard deviations above the mean...











"Sir, the possibility of successfully navigating an asteroid field is approximately three thousand seven hundred and twenty to one!"







Objectives

- Analyze the gaps in your current organization
- Start framing even the most compliance-driven program in basic risk terms
- Gradually move from reactionary spend to qualitative/quantitative-based prioritization

Where Are You Now?

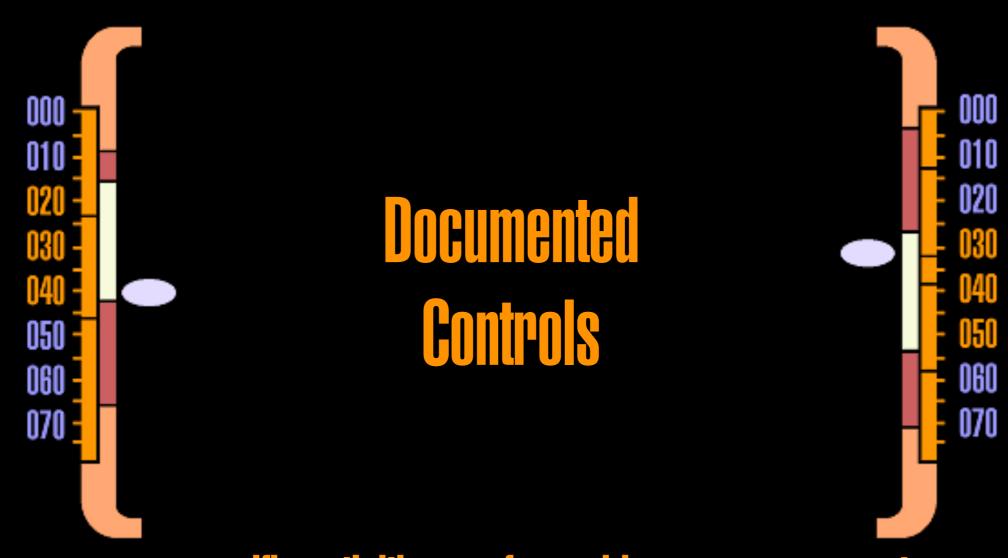




... is how an institution expresses its intent with regard to information security



... enables you to know what you have, where it is, who own's it, etc.



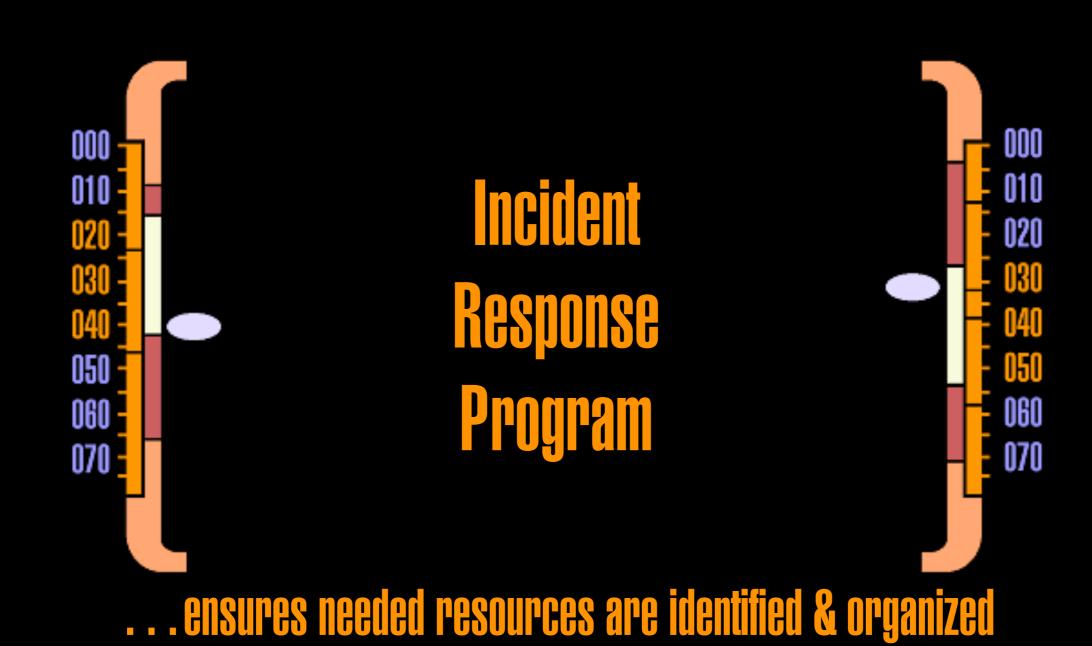
...are specific activities performed by persons or systems designed to ensure that business objectives are met



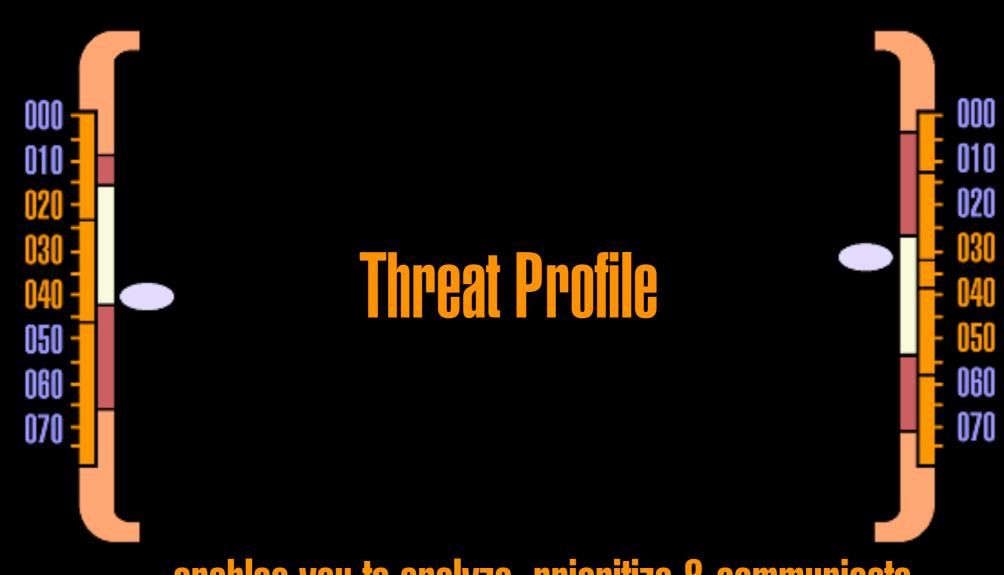
...ensures proper ownership & responsibility



... enables everyone to speak the same language



to effectively deal with adverse events



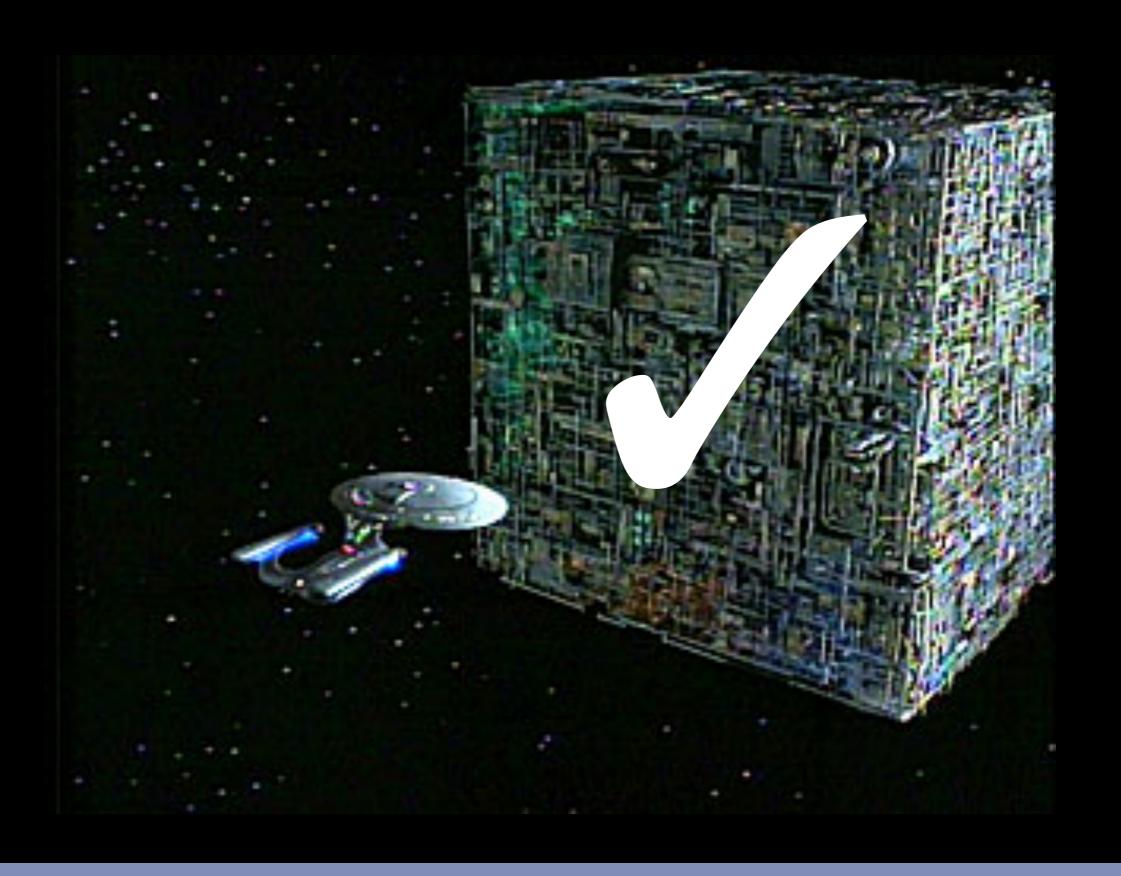
...enables you to analyze, prioritize & communicate the most important threat actors/actions to stakeholders



... because you can't have risk without the potential for loss



"But, all we have are compliance controls!"



- Sarbanes-Oxley
- PCI-DSS D
- MA 201 CMR 17
- NRS 603
- Japan IPA, Law No. 57 of 2003

Ensure all risk statements in your control library are actual risk statements and not just descriptions of the control failure

Require that individual control statements are specific to the application / device / system

- Loss of Confidentiality of PAN data in \$SBU online payment system
- Loss of Integrity of Financial Reports in \$SBU claims management system
- Loss of Availability of \$SBU drug manufacturing monitoring system

Use a roll-up view when communicating your documented risks to management

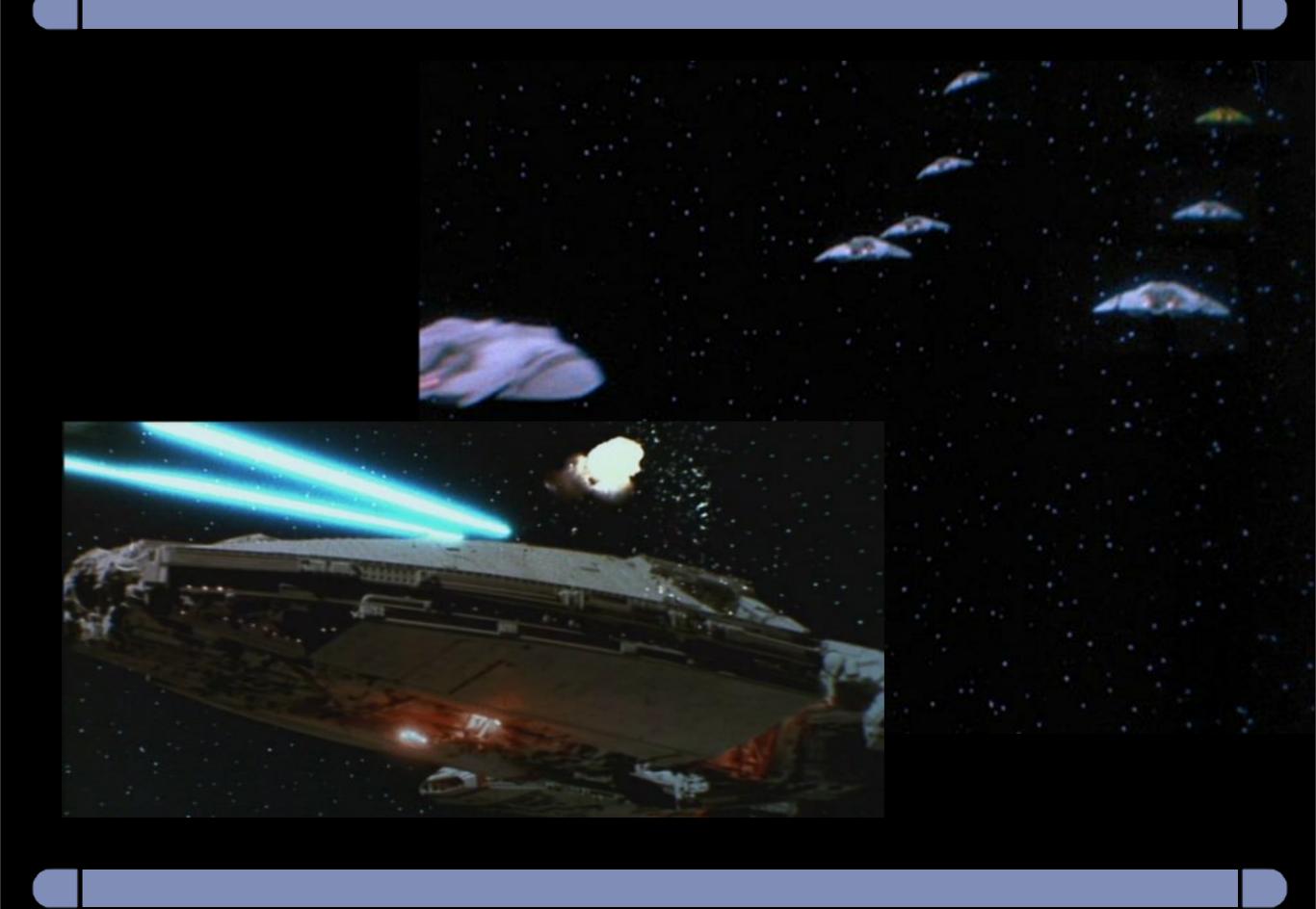
- Loss of Integrity of Financial Reports
- Loss of Confidentiality of PAN data
- Loss of Availability of Industrial Monitoring System

Take the offensive

http://www.sans.org/critical-security-controls/

- I. Inventory of Authorized and Unauthorized Devices
- 2. Inventory of Authorized and Unauthorized Software
- 3. Secure Configurations for Hardware and Software on Laptops, Workstations, & Servers
- 4. Continuous Vulnerability Assessment and Remediation
- 5. Malware Defenses
- 6. Application Software Security
- 7. Wireless Device Control
- 8. Data Recovery Capability
- 9. Security Skills Assessment and Appropriate Training to Fill Gaps
- 10. Secure Configurations for Network Devices such as Firewalls, Routers, and Switches
- 11. Limitation and Control of Network Ports, Protocols, and Services
- 12. Controlled Use of Administrative Privileges
- 13. Boundary Defense
- 14. Maintenance, Monitoring, and Analysis of Security Audit Logs
- 15. Controlled Access Based on the Need to Know
- 16. Account Monitoring and Control
- 17. Data Loss Prevention
- 18. Incident Response Capability
- 19. Secure Network Engineering
- 20. Penetration Tests and Red Team Exercises

With the SANS Top 20 in hand, objectively enumerate your \$ORGANIZATION capabilities and use this data to start a risk dialogue



- Audit Findings
- Breach Response
- Unsupported hardware/software

Consistent, calibrated & company-wide risk assessments

Demonstration that the risk assessments carry weight / affected change

Elevation of the risk assessment from a project management checkbox to critical path element when rolling out an app / network / system / etc.



