Secrets Stolen, Fortunes Lost

Preventing Intellectual Property Theft and Economic Espionage in the 21st Century

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AFIO
23 October 2008
Agenda

- The targets are ???
- The threat vectors are ???
- Global incidents
- Solutions
- Conclusions
The Targets are?
Who you are and what you do.
The Threat Vectors

- The Individual
- The Competitor
- The Organized Criminal Element
- The Nation State
Recent Incidents

Design Plans

Germany
PDA/Laptop

Intellectual Property

UK, Israel & ?
Design Plans

Training Exploited

United States
The Perfect Storm

U.S. & U.K.
France
Global
Solutions

“It is important to invest in protective measures commensurate to the value of the asset being protected.”

“Secrets Stolen, Fortunes Lost”
Authors: Richard Power & Christopher Burgess
Publisher: Syngress, March 2008 - ISBN-10: 1597492558
Elements of Security Mitigate Risks & Threats

Scope of Risks & Threats

- Personnel Security
- Physical Security
- Information Security
If Integrated, They Further Mitigate Risks & Threats

Scope of Risks & Threats

Personnel Security

Physical Security

Cyber Security
Awareness, Education & Intel
Optimize Mitigating Factors

Scope of Risks & Threats

Awareness & Education
Personnel Security
Intel
Physical Security
Cyber Security
Elements of
A Holistic Program

► **Personnel Security:** Implement a "Personnel Security" program that includes both background investigations & termination procedures.

► **Physical Security:** Do not overlook the "Duh" factor.

► **Information Security:** Recruit people with academic training (e.g., CyLab) & professional certification (e.g., CISSP, CISM, etc.) Adopt best practices. Establish a baseline.

► **Industry Outreach:** Actively participate in industry working groups appropriate to your sector & environment. Sponsor research and education (e.g., CyLab)

► **Government Liaison:** Leverage your tax dollars.
Elements of A Holistic Program

- **Intelligence:** You need both business & security intelligence. Someone must be looking at both streams, with particulars of your enterprise in mind.

- **Awareness & Education:** Train your workforce on an ongoing basis about the threats of economic espionage, intellectual property theft, counterfeiting & piracy, & countermeasures

- **Organization:** Where security reports within an organization is the most vital issue.

- **Legal Strategies:** Don't let a small legal mind make decisions about big legal issues.
Magic Ingredients

- Awareness & Education must be revolutionized

- Culture of Security
  - Security is not a checklist, it is a culture

- Intent
  - Engage
  - Enlighten
  - Empower

- Content
  - Intriguing Themes
  - Credible Sources
  - Plausible Scenarios
  - Relevant to Both Current Events & Personal Life
Governance

- No Board of Director member will ever say oversight of security and privacy are not board responsibilities.
- No C-level executive will ever say that security and privacy are not among their top three priorities.
- But what constitutes effective oversight of security & privacy in 21st Century?
- Organizational issues are at least as critical as technical issues – if not more.
Governance

► Separate Risk Committee that oversees security & privacy?
► Review & approve annual budgets, roles & responsibilities, top-level policies, annual reports from senior management?
► Security breach notification plan?
► Annual privacy compliance review?

► Functional separation of security, privacy & IT management?
► CSO or CISO & CPO that work collaboratively?
► Cross-organizational or inter-departmental team (aka “X-Team”)?

*NOTE: CyLab Governance of Enterprise Security Survey Available November 2008*
Conclusion

- Technology does not equal security
- Environment of trust secures the workplace
- Security integration must be driven from the top
- Security awareness includes everything/everyone
- Security is a culture, not a checklist
- Fear is not awareness -- empower people
- Real governance is the only meaningful mandate
- People, Process & Technology
Questions?

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