

Planning and Execution of an Effective Security Awareness Program

Experience

- Project Management
- Cybersecurity Degree
- ISO @ Texas Facilities Commission
- Security Program at Alamo Colleges

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Outline – Questions Answered

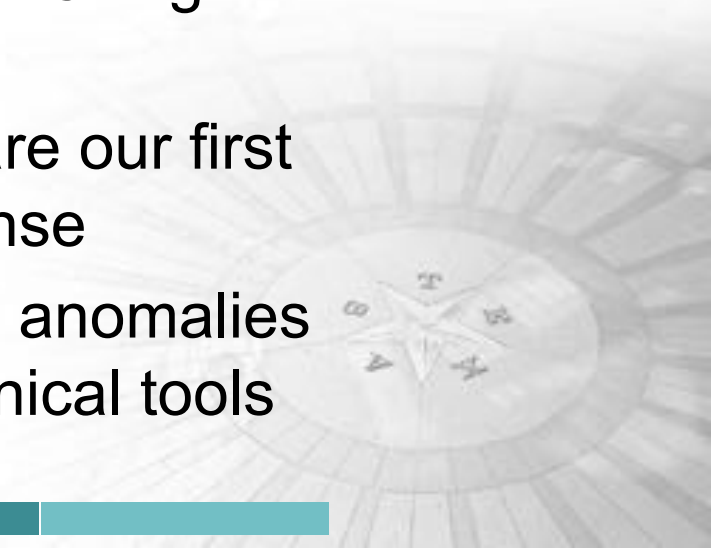
- What is a Security Awareness Program and why is it important?
- Do I need Buy-in?
- Who is part of the Program?
- What is part of the Program?
- How do we implement the program?
- How do we get the word out?
- Organizational Presence
- Metrics and Reporting
- Marketing



What is a Security Awareness Program and why is it important?

A Security Awareness Program is not just about training

- It's about being security aware while doing business
- It's how we engage online
- It's how we exchange information
- Our users get better at protecting our organization from the inside out by being cognizant of what to look for in phishing attempts
- Our users are our first line of defense
- They notice anomalies before technical tools



Lesson Learned

- Most don't know what Security Awareness looks like
- Users don't realize the value of data
- Users are hyper-curious
- You don't want to impart the "Big brother is watching"
- You have to make it personal
- I'm am the first ISO at my agency

What is a Security Awareness Program and why is it important?

- Compliance with state, federal and industry regulations
- The Texas Cybersecurity Framework includes a control that's dedicated to Security Awareness training

Why do we need a Security Awareness program, we have not been hacked/breached?

- Reduce the impact and/attack surface of an incident
- Organization's human assets are prepared on how to respond

Lesson Learned

- Sensitive data can reside in public domains
- Data can cross contaminate to other servers – Reduce the attack surface
- Don't want to figure out how to respond to incidents when you have an incident

Buy-in

Security Awareness is **NOT** an IT initiative

- Everyone shares the responsibility
- Establish C-level support
- If it's important to C-level staff others will follow
- Come prepared with Strategy/Vision



Lesson Learned

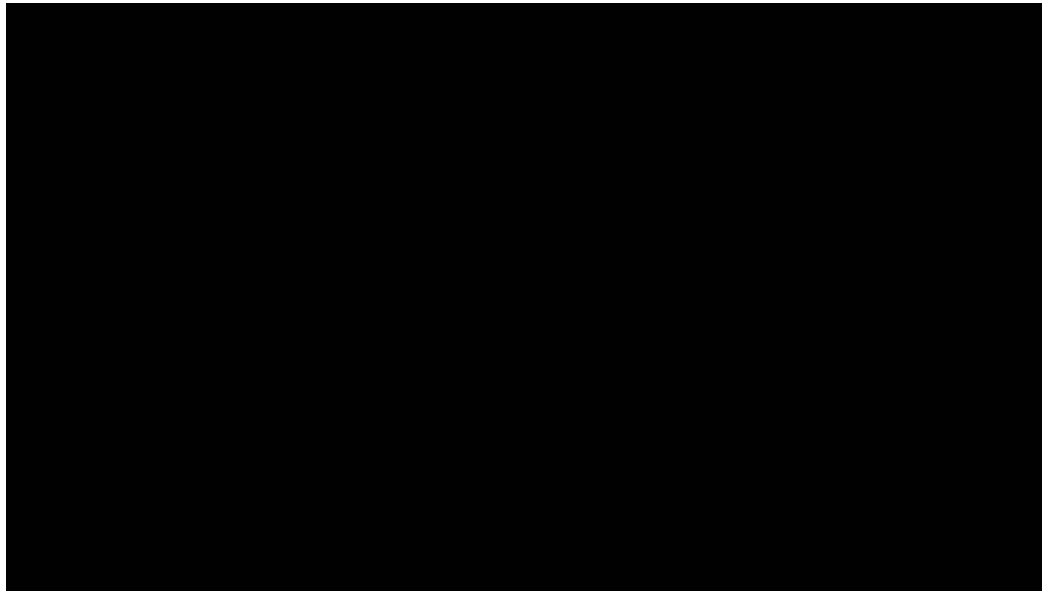
- Users should not feel like IT is happening to them, collaborate with HR on delivery,
- If it's important to C-level staff, others will follow
- Strategy should show real data/metrics

Champions Why they are even more important?

- They can speak about the program and the importance to their department's role in effecting change (it just takes one person to start the momentum)
- They can assist in the delivery of what Security Awareness means to their day to day operations
- Should include partners from various functional business units: Finance, HR, IT, Operations, etc.
- *It's not a siloed endeavor*

Lesson Learned

- Security Council
- Educating users on things that are relevant to their personal space



Who should be part of the Program

- Employees
- Any one who has access to your organization's IT resources and/or data assets
- Contractors and/or Third Parties (think Target)
<https://krebsonsecurity.com/2014/02/target-hackers-broke-in-via-hvac-company/>
- Board of Directors, Commissions, etc.



Lesson Learned

- Contractors represent a large number of our user base
- Remote users are in systems after hours
- If there's a compromise, who you gonna call?

Okay, I've
gotten
approval
from C-Level
and I have
partners...no
w what?

High Impact Initiatives:

- CBT on subjects that are currently relevant such as Phishing
- Tools to complement training
 - Wombat or other type product that provides a vantage point
- Be a resource :Create a reporting mechanism to make it easy for users to report such as a web presence where users can **easily** find information (standards, guidelines, etc.)
- Presentations to departments specific to their business units
 - How they handle data and how it aligns with Organization's guidelines and standards

Lesson Learned

CBT Training

Should have a start and an end date

Must be Interesting

Must be relevant

Must be short and sweet (from 45 → 24)

Things that must be in place

- Train the IT Helpdesk on how issues will be addressed/answered (SME)
- Delivery of training
- New Hires (that start after the compliance start period)
- People that move
- Report Frequency Beginning: once a month, End: twice/monthly

Marketing: How to get the word out (it's an ongoing endeavor)

- Cardstock to highlight frequently asked questions such as password guidelines, etc.
- Computer based training
- Posters (people love posters, make them fun)
- <https://free.thesecurityawarenesscompany.com/downloads/category/videos/page/2/>
- Be your own organization's vendor at functions



Lesson Learned

Face to Face

If your agency is decentralized, making those connections are especially important

October Security Awareness Month

Make it a point to educate what OSAM is about

Organization

Presence

Dedicate a webpage on your Portal/Intranet for users to get quick answers to:

- Launching pad to current initiatives
- Find policy, guidelines and standards
- Security Forms for provisioning
- Security-centric information
- How -Tos
- More importantly: Create a brand for Information Security



Lesson Learned

SharePoint or other Portal application

- One repository for information
- Users only have to remember one URL
- Make it Security-centric
- Use the site to further educate users

Metrics and

Reporting

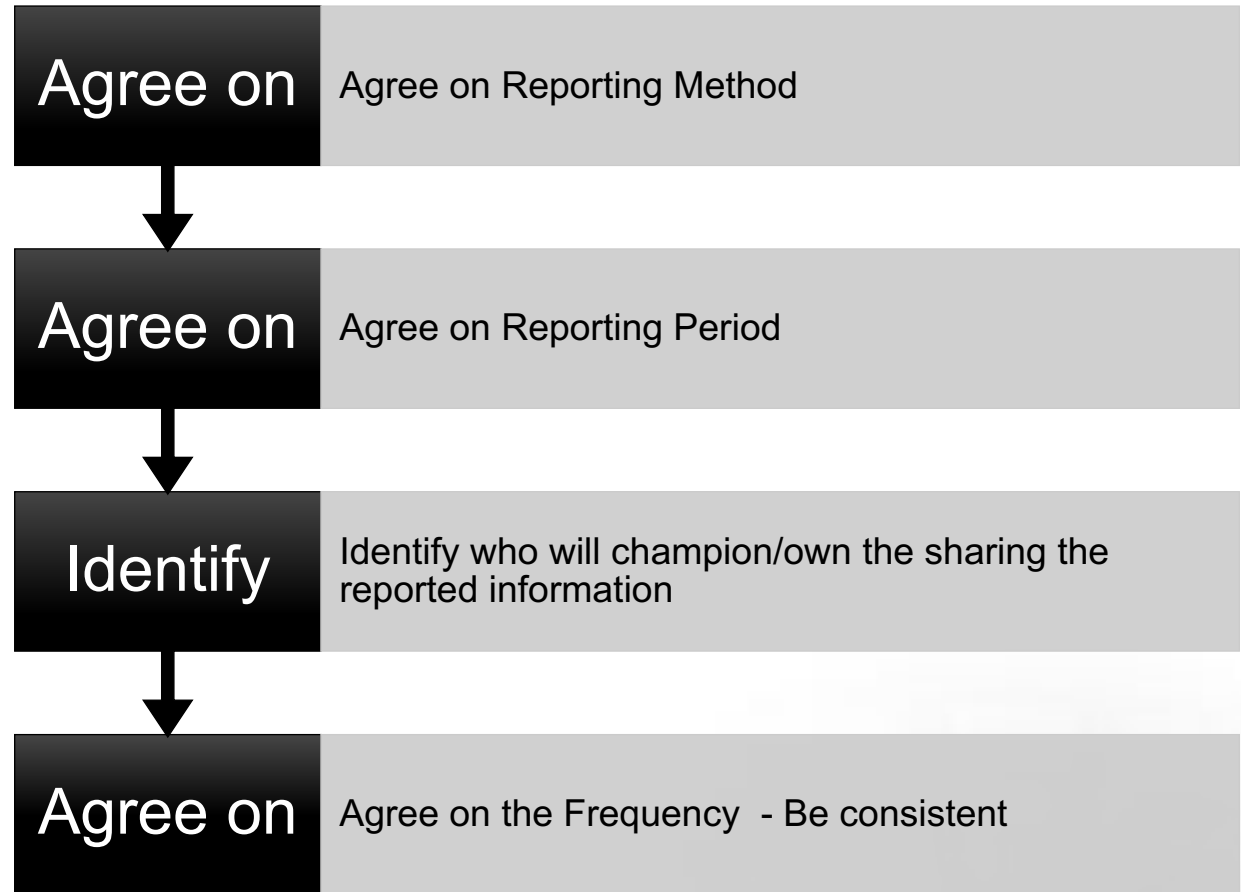
(In order to create a metric, you need a baseline to determine the efficacy of your program)

Baselines can provide you with where to start with your initiative

- Can be a manual endeavor (number of suspicious emails being reported today – this is a starting point)
- Work with partners to find out how many of their users are encryption when data sharing with external entities
 - Defer them to the How-To on your Information Security Webpage
- Take a sample of how many users know how often their password must change



Metrics and Reporting



Lesson Learned

Accuracy is very important

- Departments take ownership and if reports are inaccurate, they lose confidence in their effort
- Make the reporting look the same across all departments
- Consistency – if you promise to send reports every 2 weeks/monthly – keep your word

Questions

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