

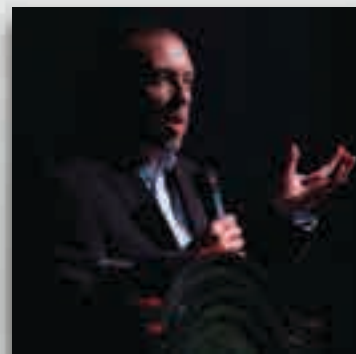


# HOW TO BUILD A PRODUCT SECURITY PROGRAM WITH SDL & CERTIFICATIONS

ICMC 2016

## About Chris Romeo

- CEO / Principal Consultant @ Security Journey
- 20 years security experience
- 10 years at Cisco, leading the Cisco Security Ninja program & CSDL
- Speaker at RSA, AppSec USA, AppSec EU, & ISC2 Security Congress



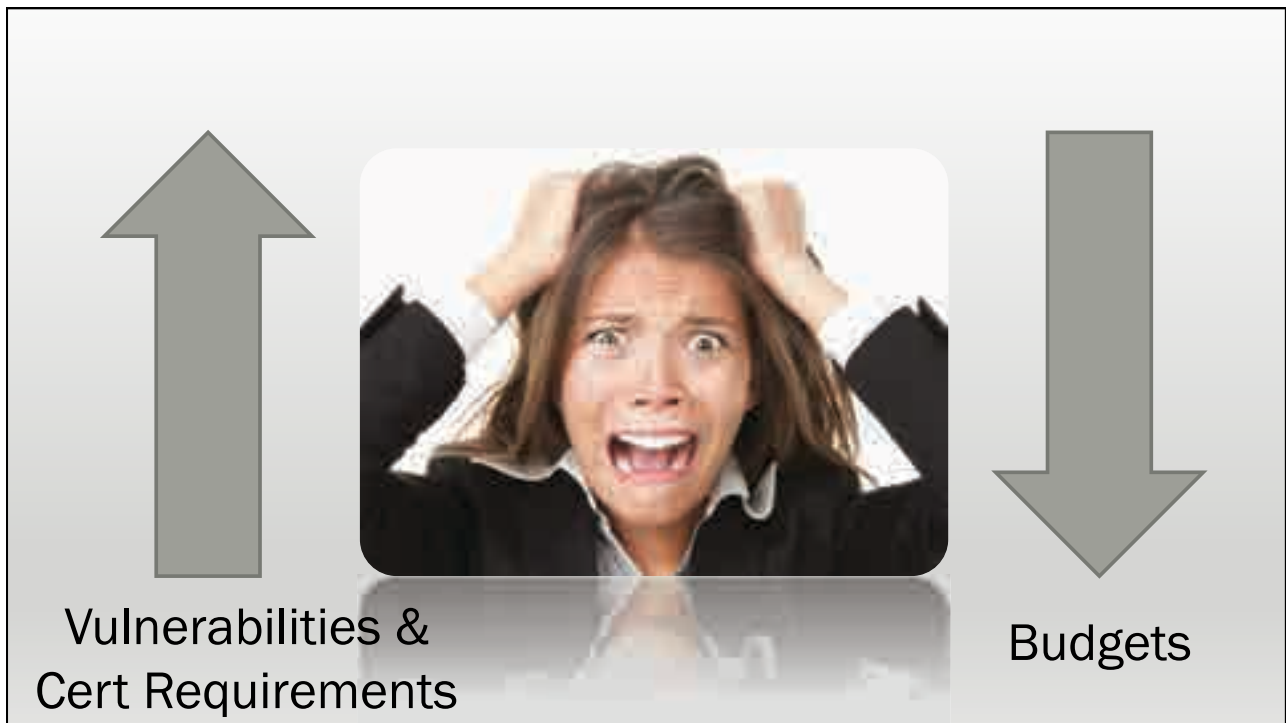
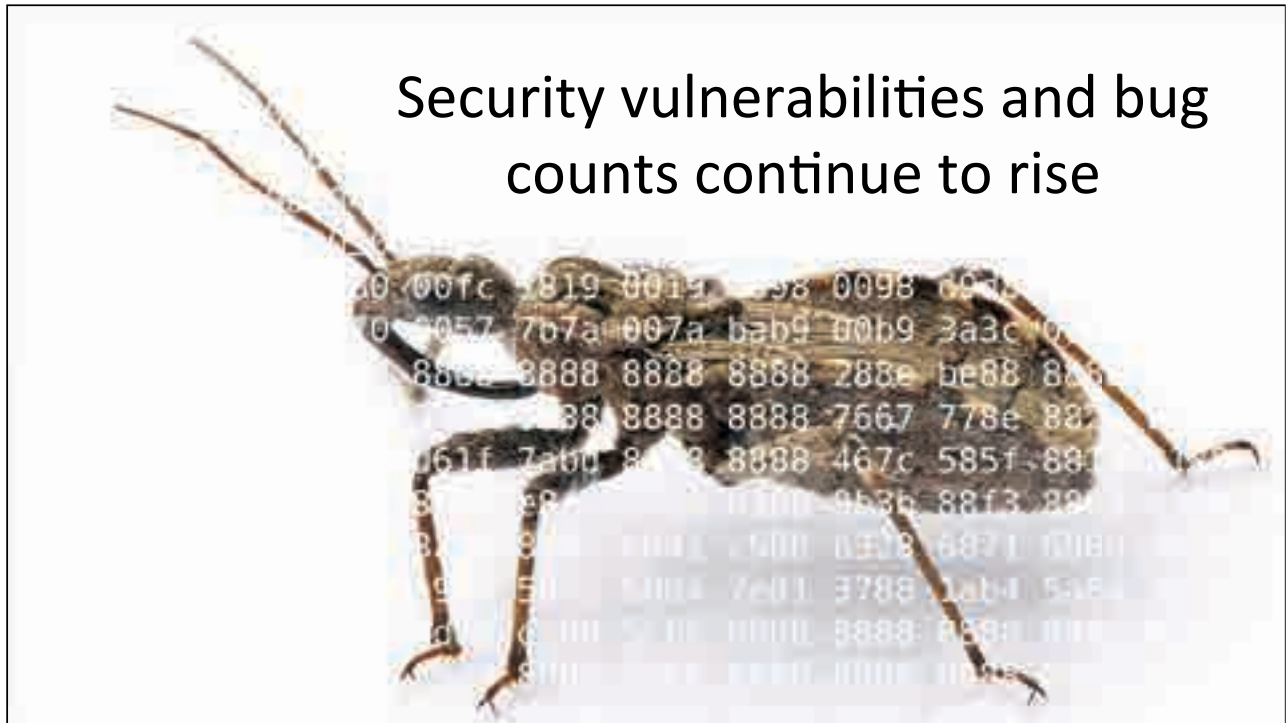
## About Ashit Vora

- Co-Founder and Lab Director @ Acumen Security
- 13 years certification and security experience
- Led Cisco's FIPS and CC certification teams



## Overview

- The Problem Space
  - *State of the vulnerability*
  - *Certification Challenges*
- The Product Security Program
- How to overlay certifications into an SDL
- Implementing a product security program
- Top six tips for successful collaboration between SDL & Certifications



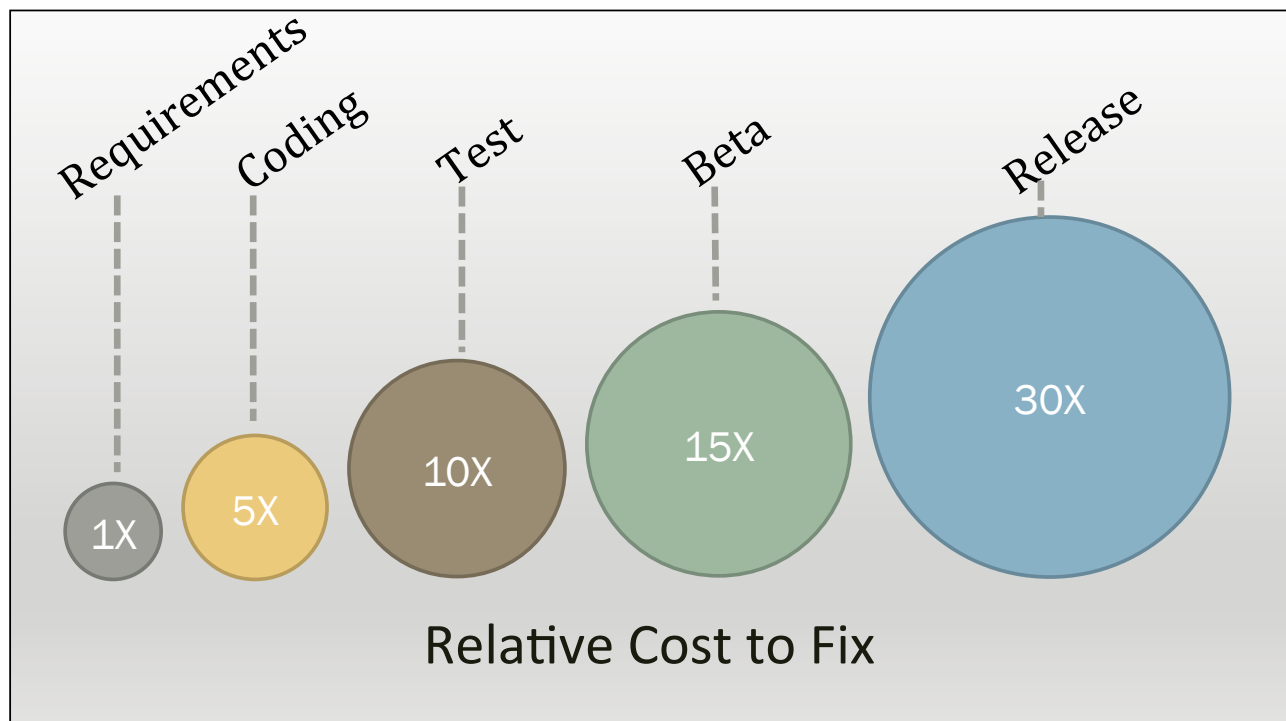
## The Impact of Vulnerabilities

- 3 out of 4 applications produced by software vendors fail OWASP Top 10 when first assessed\*
- 63% of internally developed applications are out of compliance with OWASP Top 10 when first assessed\*



**VERACODE**  
**STATE OF**  
**SOFTWARE**  
**SECURITY**

Focus on Application Development  
SUPPLEMENT TO VOLUME 6



## Certification Pain Points



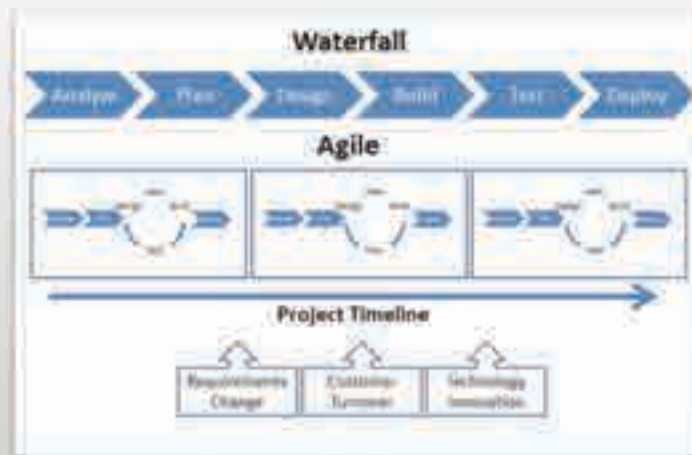
Bolted On

v/s



Baked In

## Certification Pain Points



Aligning timelines with dev schedules and business cycles

## Certification Pain Points



Certificate Maintenance

## Certification Pain Points



Alphabet Soup of Standards

Solution?



## The Pieces of a Product Security Program



## Goals of a Product Security Program

Lower cost and  
time to fix of  
security bug  
counts

Security  
evangelization

Baking in  
certification  
requirements

Trustworthy  
products at a  
lower cost

## Product Security Program Scale



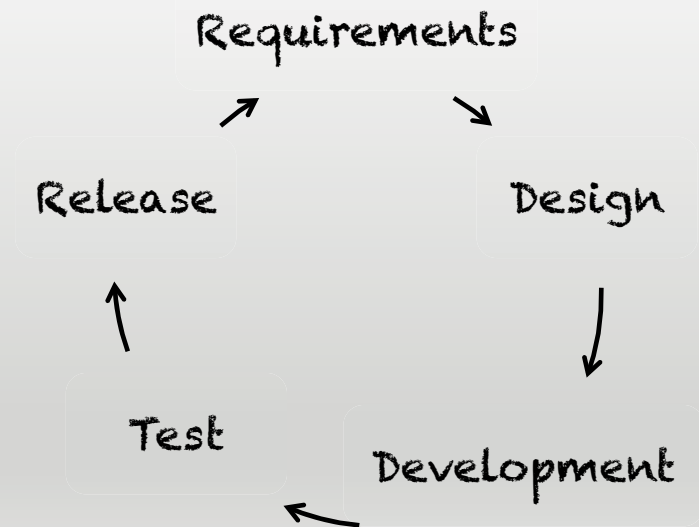
Big vs. Small



Many Hats

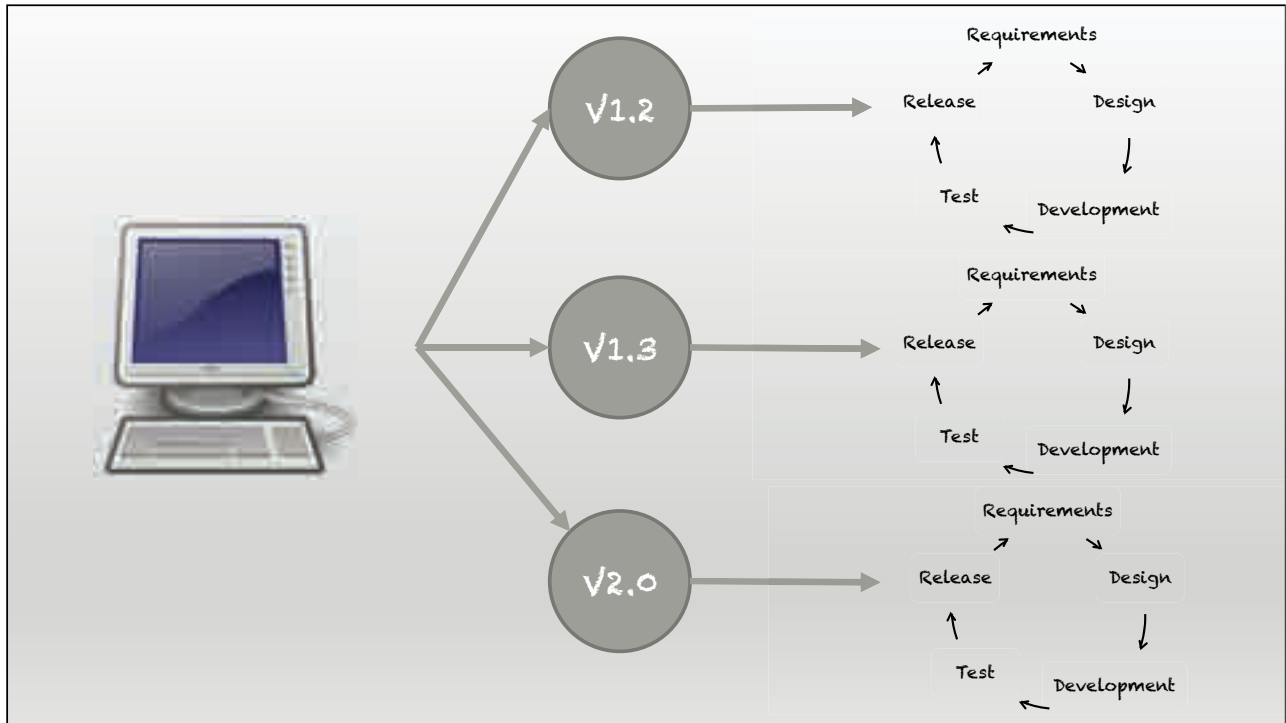


## A Secure Development Life Cycle

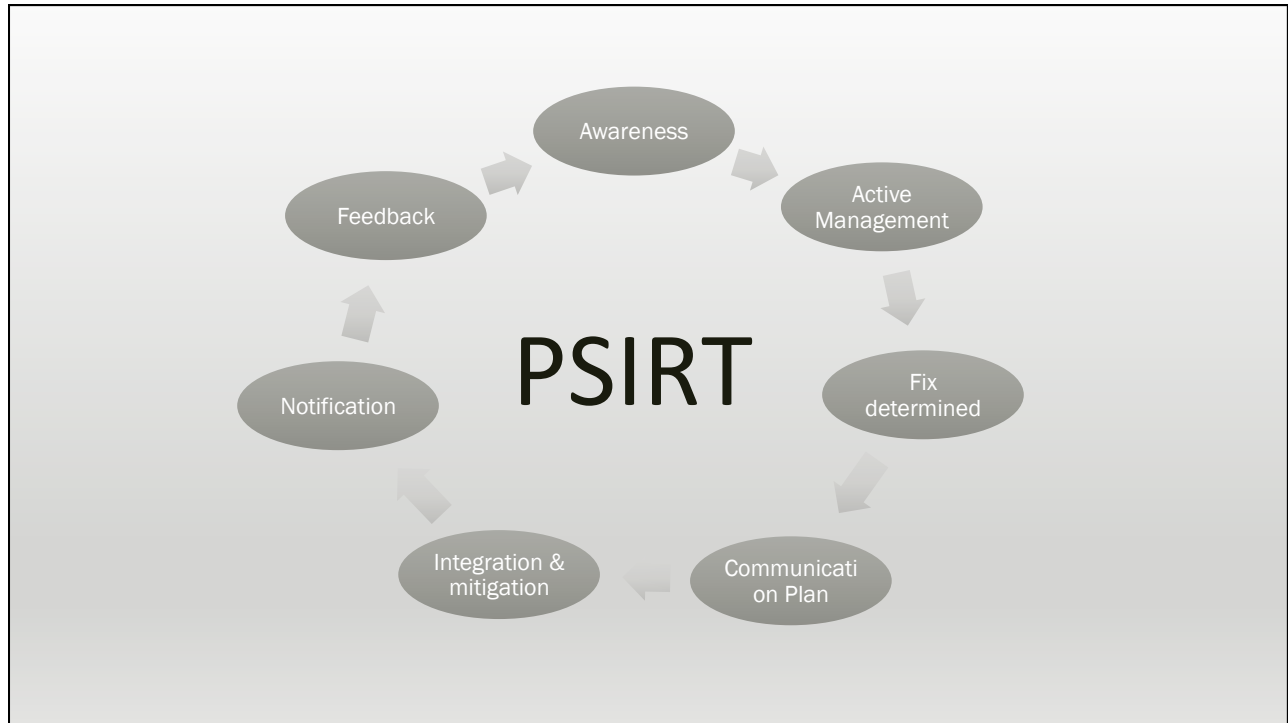


SDL is the foundation for any Product Security Program.





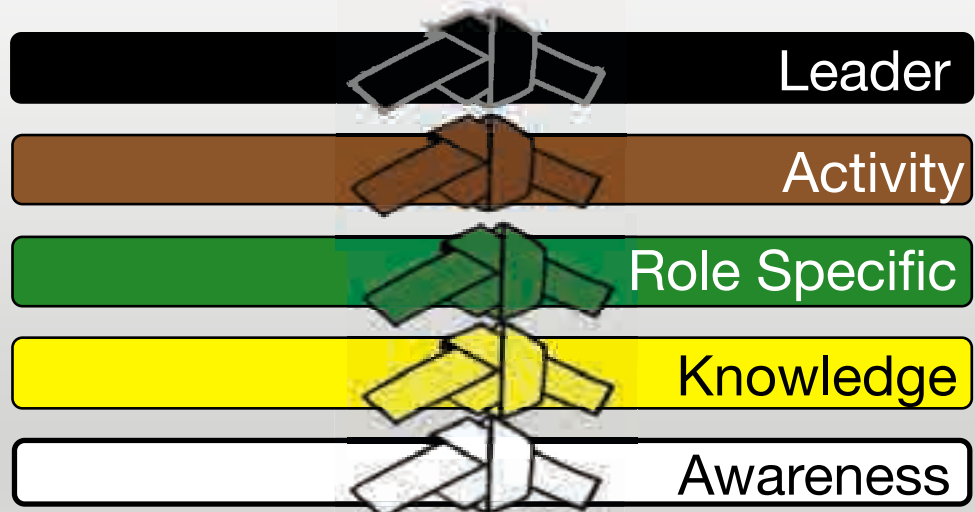




# Certifications



# Education



## Overlaying Certifications with SDL



## Building a Team



## Certifications Overlay Requirements



## Certifications Overlay Design



Plan



Meet or Exceed

## Certifications Overlay Design

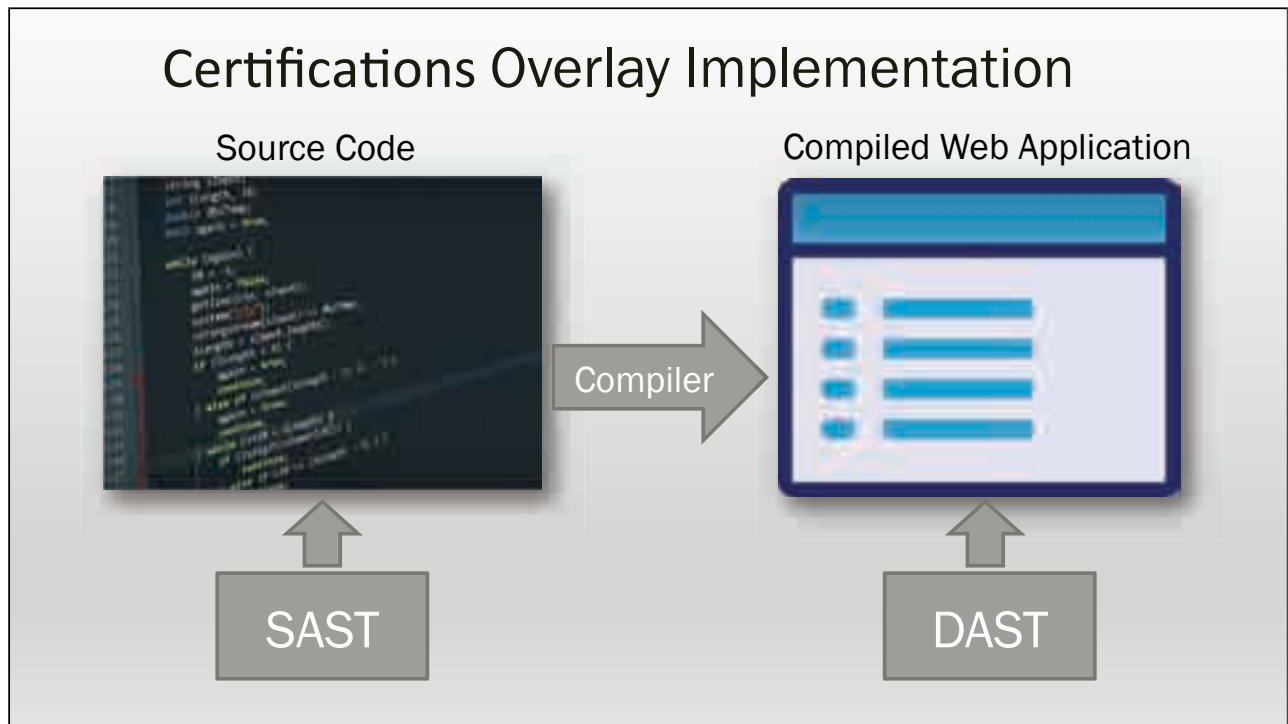
Threat Modeling...



## Certifications Overlay Implementation



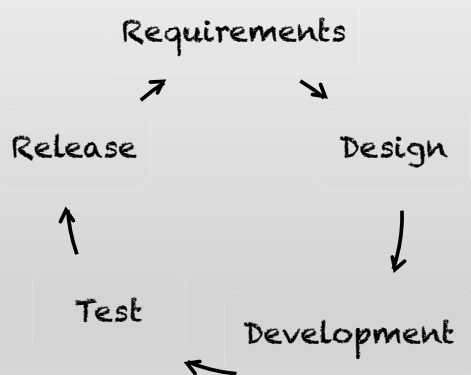




## Certifications Overlay Release



## Top 6 tips for Collaboration between SDL & Certifications



1. Teamwork:  
make certifications  
part of the  
product security  
program



2. Education:  
teach the  
business  
case for  
certifications

3. Partnerships:  
work together  
towards the  
common goal



4. Harness the  
security value of  
certifications,  
vote No on  
checkbox  
compliance!

5. Do not create custom versions of products to meet cert requirements



6. Treat your internal certification folks well!



## Summary

- Vulnerabilities are present, and cert challenges are real
- The Product Security Program meshes nicely with the certification mission
- Collaboration results in a better secure, certified product

**Call to Action: Think of certifications as more than a check box**

Thank you!



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