

Responsibility for the Harm and Risk of Security Flaws

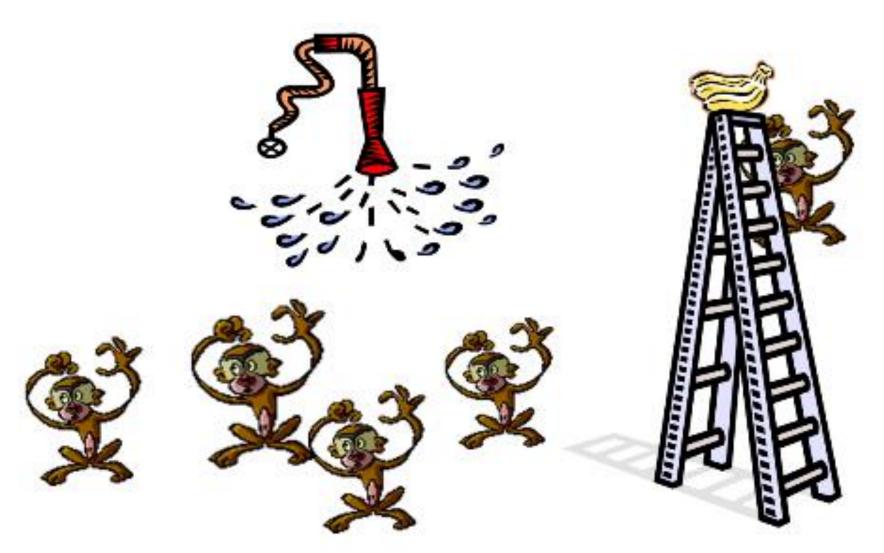
Cassio Goldschmidt

Sr. Manager, Product Security

What is Software?

Does it Matter?!?!

The Importance of Reviewing Our Beliefs



A Product



A Service





A Common Good



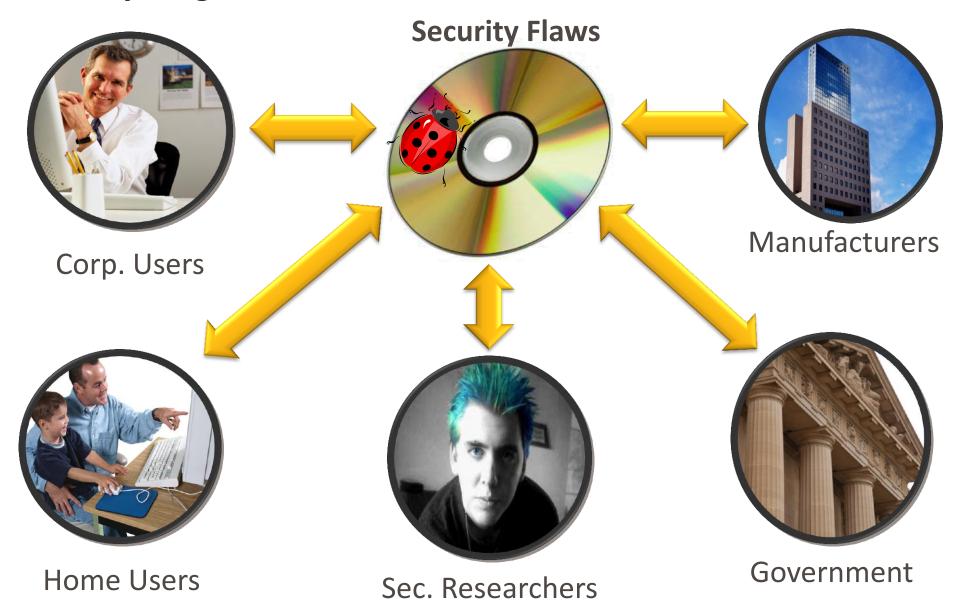
Common Goods can be "bad"



...and we all contribute to it.



...and we all contribute to it. Today's Agenda



Manufacturers

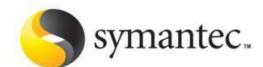
Industry Best Practices – SAFECode.org

















No Effective Way to Prove Software Correctness



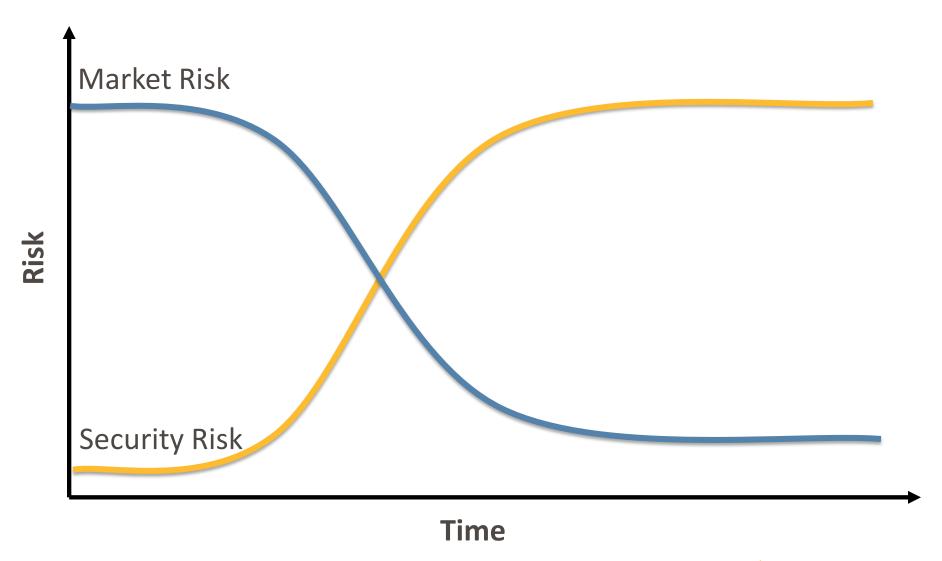
The Weak Link



Investing in Security



The Business Definition of Risk



Adopters (Home Users, Corporate Users)

Users Want Features

US\$28,724

US\$28,724



Reliable

- Convertible
 - Rear Spoiler
- Alloy Wheels
- And Red!

Security Is Not "Visible"

Will home users be able to tell which one is more secure?







Network Effect Affects Decisions Creation of an Ecosystem Affects Security



Ignoring updates put all of us at risk

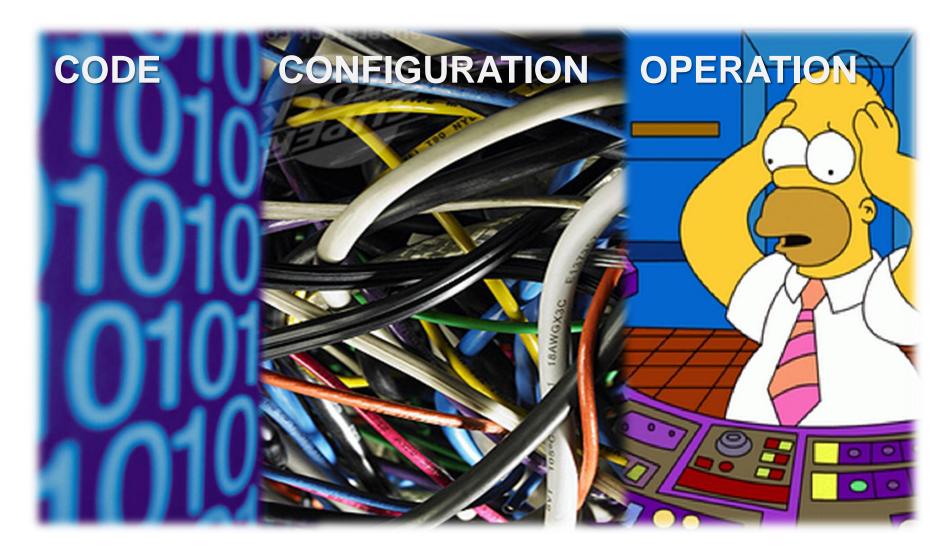
How often home users ignore this pop up?



Choosing to Adopt Software in Corporate Environments



Weakness Can Originate from Different Sources



Weakness Can Originate from Different Sources



Quarterly Freezes

December 2010

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				



Security Researchers

Security Researchers



Full Disclosure

- All technical details are revealed.



- Technical details are published before the manufacturer is notified.



Coordinated Disclosure

- Finders and manufacturers work together toward a solution.
- Coordinated Disclosure is the new Responsible Disclosure

Security Researchers Incentives and the Vulnerability Market



Sec. Researchers





Reward



Developer





Crime

Security Researcher Incentives and the Vulnerability Market



What happens when information leaks?

Government

Government Hacking Tools and Gun Laws



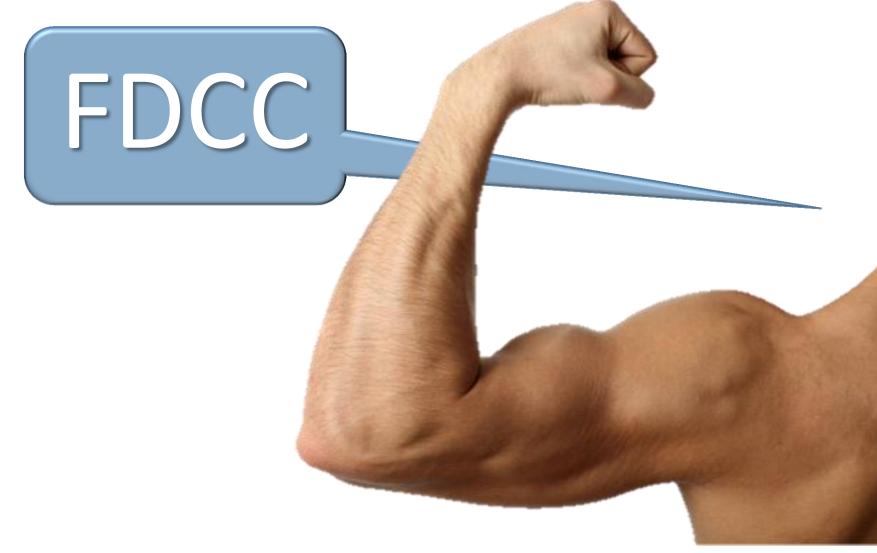




Government Treating Vulnerabilities like Pollution



Government – Flexing its Muscles Federal Desktop Core Configuration (FDCC)



Government Too Early to Enact Laws?





Thank you!

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