

Managing Data & Databases

Session 20 Information Security Digital Security? Tell me about it...



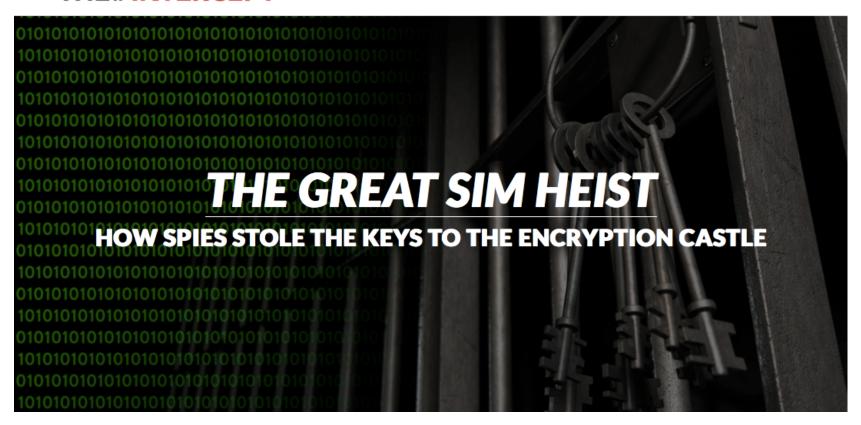
Giesecke & Devrient





Well, they kinda did...

THE //INTERCEPT FEATURES GREENWALD FROOMKIN DOCUMENTS STAFF CONTACT // ** (**) (**) (**) (**)



Great retailers? Well...



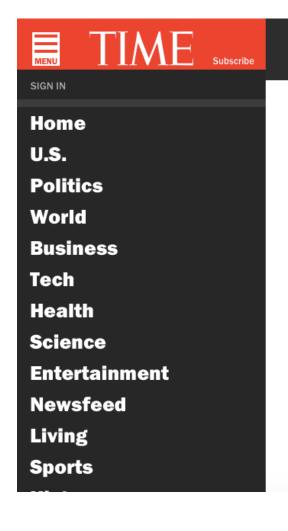
10 January 2014 Last updated at 09:26 ET

Target data theft affected 70 million customers



The cyber-thieves managed to infiltrate card swipe systems at Target stores

Great retailers? Well...



Data Security

Target Expects \$148 Million Loss from Data Breach

Dan Kedmey | Aug. 6, 2014











The bill comes due for one of the largest security breaches in retail history

Target estimates that losses from a 2013 data breach that compromised credit cards and account information for 40 million shoppers could cost upwards of \$148



Alex Wong-Getty Image

The Washington Post

Great retailers? Well...

Target data breach victims could get up to \$10,000 each from court settlement

















By Sarah Halzack March 19 at 12:45 PM Follow @sarahhalzack



DAILYTECH

How did that happen?

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Internet

HVAC Firm at Center of Target Data Breach Also Counts Wal-Mart, Costco as Customers

Jason Mick (Blog) - February 5, 2014 9:35 PM

Print



19 comment(s) - last by Samus.. on Feb 8 at 12:16 AM

Access was reportedly given to help power savings, but network wasn't properly isolated from consumer data

It's said that for every \$100 USD spent at retailers via credit card, 5 cents is lost via digital fraud. The holiday hack of Target Corp. (TGT) reminded Americans that this problem was far from solved. And with new details leaking out from the U.S. Secret Service investigation there's cause for concern that the Target data loss could be just the tip of the iceberg in the attack.



(Source: South Park Studios)

How did that happen?

PCI Data Security Standard – High Level Overview



Build and Maintain a Secure Network and Systems	 Install and maintain a firewall configuration to protect cardholder data Do not use vendor-supplied defaults for system passwords and other security parameters
Protect Cardholder Data	 Protect stored cardholder data Encrypt transmission of cardholder data across open, public networks
Maintain a Vulnerability Management Program	 Use and regularly update anti-virus software or programs Develop and maintain secure systems and applications
Implement Strong Access Control Measures	 Restrict access to cardholder data by business need-to-know Identify and authenticate access to system components Restrict physical access to cardholder data
Regularly Monitor and Test Networks	10. Track and monitor all access to network resources and cardholder data 11. Regularly test security systems and processes
Maintain an Information Security Policy	12. Maintain a policy that addresses information security for all personnel

GIZMODO

+ Follow

Banks?

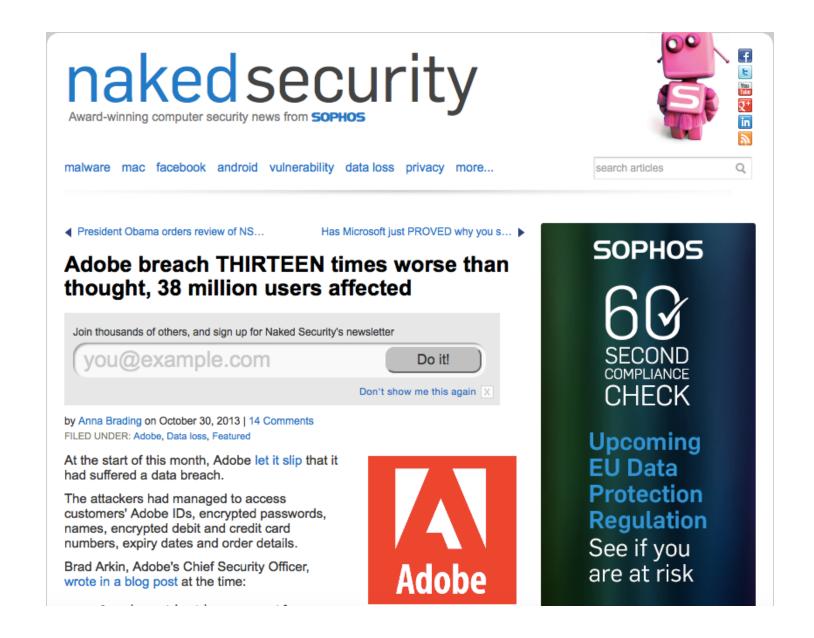
Leaked Data From 30,000 Swiss Bank Accounts Reveals Mass Tax Avoidance



30 *



Technology Firms?



Governments?

Data lost on 583,000 Canada student İoan borrowers

Names, SIN numbers, contact info. missing

The Canadian Press

January 11, 2013

A federal agency has lost a portable hard drive containing personal information about more than half a million people who took out student loans.



MACLEAN'S

Minister Diane Finley (pictured) called the incident "unacceptable and avoidable." (Patrick Doyle/CP)



You think it is stupid to lose a hard drive?



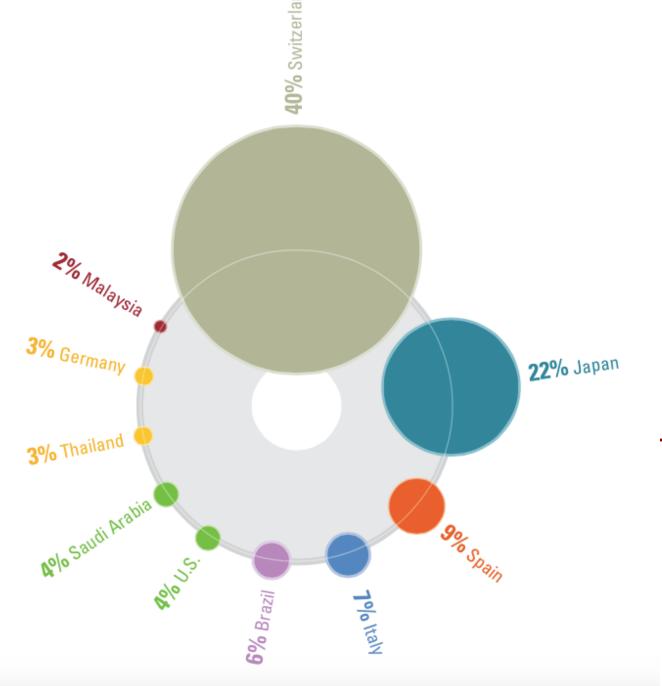


And how bad is the situation?

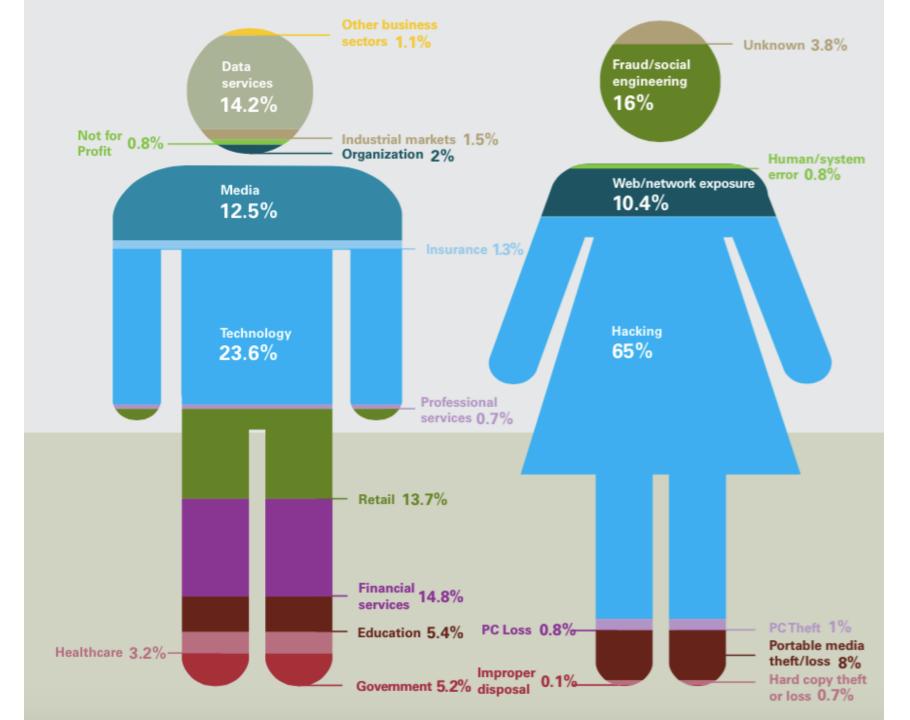


Cyber Vulnerability Index 2012

kpmg.ca



Where and how does that happen?



Where and how does that happen?

Cyber Vulnerability Index 2012

kpmg.ca

01

How to prevent that?

ASSESS

Perform an assessment of your Internet presence. What data does your organization currently leak to the world?

02

SPRING CLEAN

Where possible, cleanse meta-data from your existing published documents. Ensure all corporate devices are fully patched, not just your online web servers.

03

EDUCATE "ALL" EMPLOYEES

Everyone in the organization – from the boardroom to the mailroom – must understand the value and sensitivity of the information they possess and, more importantly, how to protect it.

04

ADJUST POLICIES

Instigate a policy to minimize unintentional or undesired corporate information appearing on the Internet.

Does it all come from outside? Insider attacks: An unappreciated risk

- Why such an increase? (4% in 2007 to 20% in 2010)
 - Increasing complexity of IT
 - Cross-Utilization of computer resources for work and personal matters
 - Social media growth

- And why do they do it?
 - Money? Machivaellianism? Narcissism? Heroism? Whistleblowing?

Source: Upton and Creese

How to deal with insider threats?

- Adopt a robust insider policy
- Raise awareness.
- Look out for threats when hiring
- Employ rigorous subcontracting processes
- Monitor employees

Source: Upton and Creese

But companies have regular information audits, don't they?

What is the role of the government?

Some cool insight

http://www.ted.com/playlists/130/the_dark_side_of_data