



Threat Landscape

Antonio Sirera

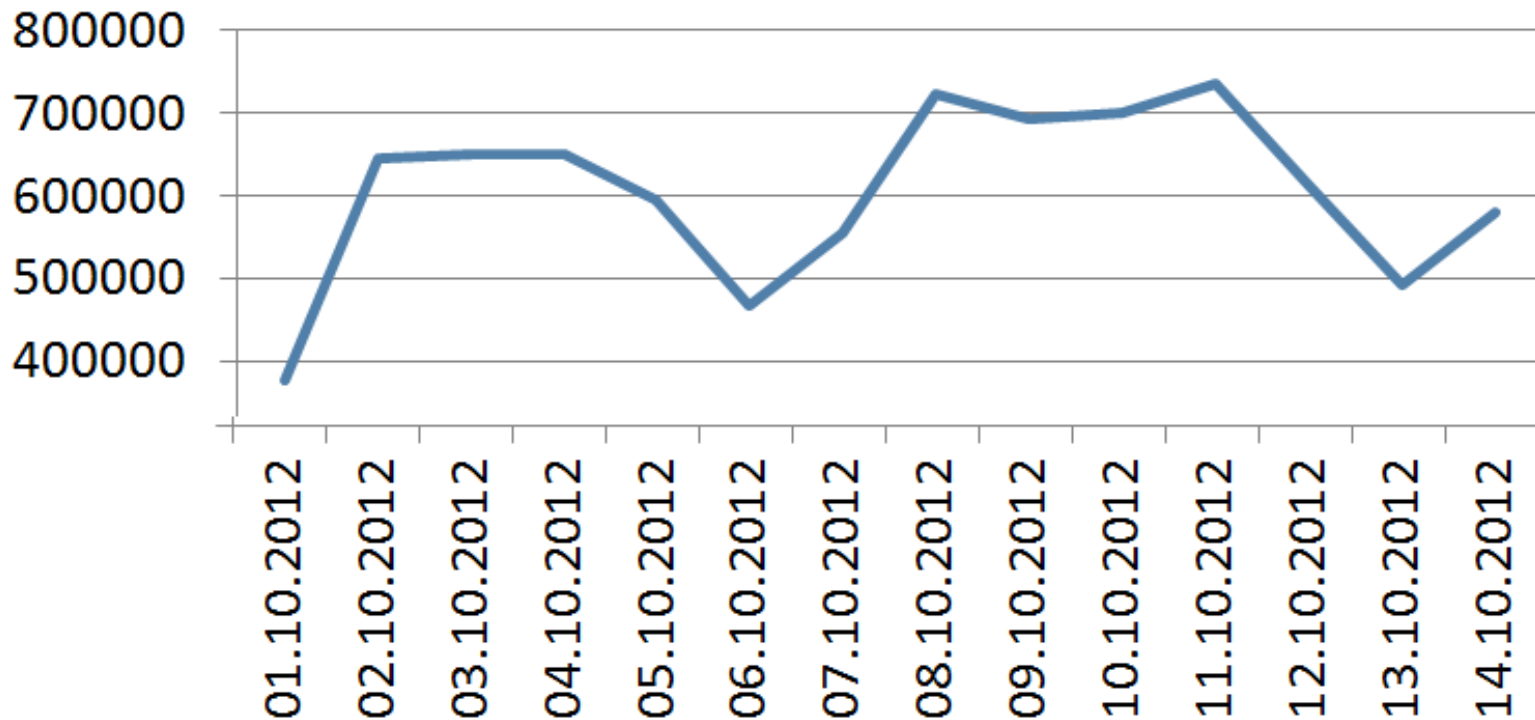
Managing Director, Symantec Suisse

Different Motivation – Different Attacks



New malware variants per day (globally)

- On average 600'000 new variants / day at end of 2012
- A lot due to polymorphic runtime packers and file infectors





ATTENTION!

Votre ordinateur a été bloqué pour violation de la loi Française



Les infractions suivantes ont été détectées:

- Le fait, en vue de sa diffusion, de fixer, d'enregistrer ou de transmettre des matériels pornographique impliquant des mineurs.
- Spam.
- Utilisation des logiciels en infraction avec les droits d'auteur.
- Partager des fichiers multimédia en infraction avec les droits d'auteur.

Pour débloquent votre ordinateur, vous devez payer 200 € dans les 3 jours prochaines. Si vous ne payez pas dans le délai précisé, votre ordinateur sera confisqués et votre cas sera soumis au tribunal.

Vous pouvez payer l'amende avec l'aide des vouchers Ukash ou Paysafecard. Acheter les vouchers par Ukash ou Paysafecard de 200 €. Ensuite, ouvrez le tab «Payer amende», remplir le forme avec les codes et valeurs des vouchers, et clique sur le bouton «Payer amende». Ou envoyer des chèques pour l'e-mail: [redacted] Votre ordinateur sera débloquent dans les 24 heures suivantes.

Après le débloquent, nous suggérons que vous:

- Supprime toutes les fichiers multimédia en infraction avec les droits d'auteur.
- Supprime des logiciels en infraction avec les droits d'auteur.
- Installer un logiciel anti-virus, si vous n'en avez pas encore.
- Faire un scan anti-virus.

Votre SE: [redacted]

Votre adresse IP: [redacted]

Votre FAI: [redacted]

Votre ville: [redacted]

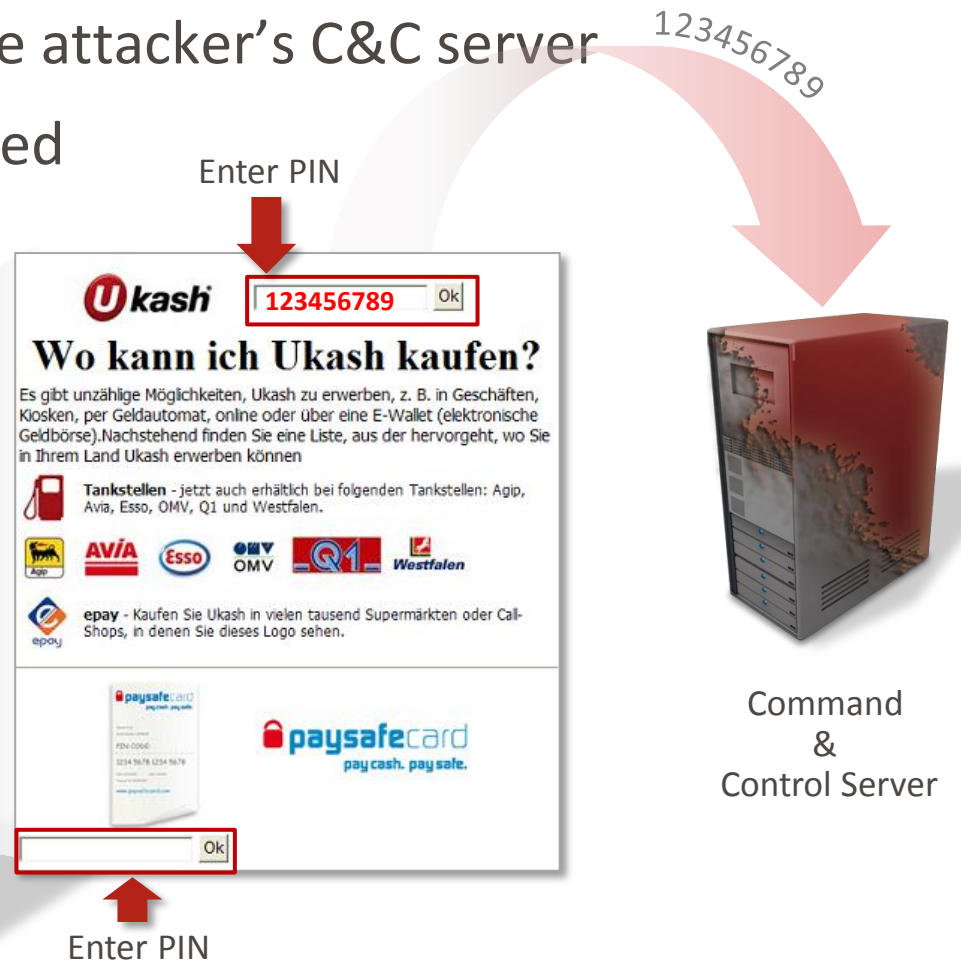
Ransomware

- Blocks a user's PC and demands money
- Usually masked as a legal police action



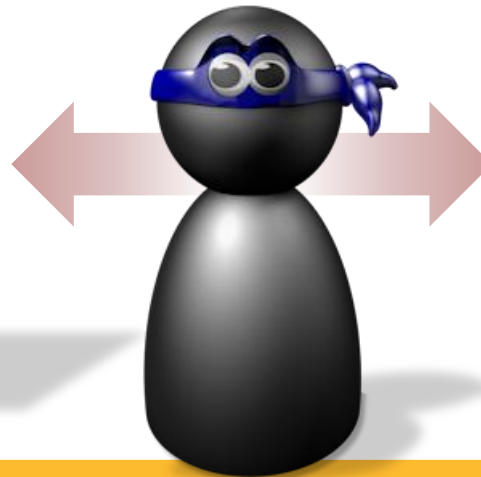
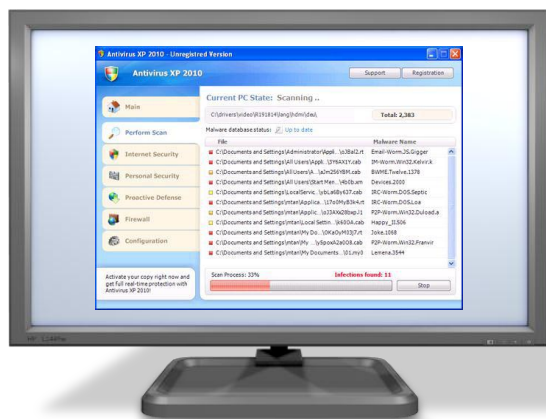
Ransom Payment

- User needs to buy paysafe/UCash/MoneyPak for 50-200\$
- The payment PIN is sent to the attacker's C&C server
- The computer is rarely unlocked at this point



Who's Behind It?

- At least 16 separate gangs involved in the current campaigns
- Many of the gangs did also banking Trojans or Fake AV
- Some have earnings of over \$500,000 per month
- In our analysis 2.9% of the users paid up



A crowd of people at night, seen from behind, holding up their smartphones. The screens of the phones are lit up and display a blue checkmark inside a yellow circle. The background is dark with some blurred lights, suggesting an outdoor event or concert.

Smartphones

I bet you know someone
who once lost his phone
with important data on it!

Top mobile threats

Web- & Network-based Attacks

Launched by malicious websites or compromised legitimate sites

Attacking site exploits device's browser

Attempts to install malware or steal confidential data that flows through browser

Malware

Includes traditional computer viruses, computer worms and Trojan horse programs

Example: Ikee worm targeted iOS-based devices

Example: Pjapps enrolled infected Android devices in botnet

Social Engineering Attacks

Leverage social engineering to trick users

Attempts to get users to disclose sensitive info or install malware

Examples include phishing and targeted attacks



Resource Abuse

Attempt to misuse network, device or identity resources

Example: Sending spam from compromised devices

Example: Denial of service attacks using computing resources of compromised devices

Data Loss

Employee or hacker exfiltrates sensitive info from device or network

Can be unintentional or malicious

Remains biggest threat to mobile devices

Data Integrity Threats

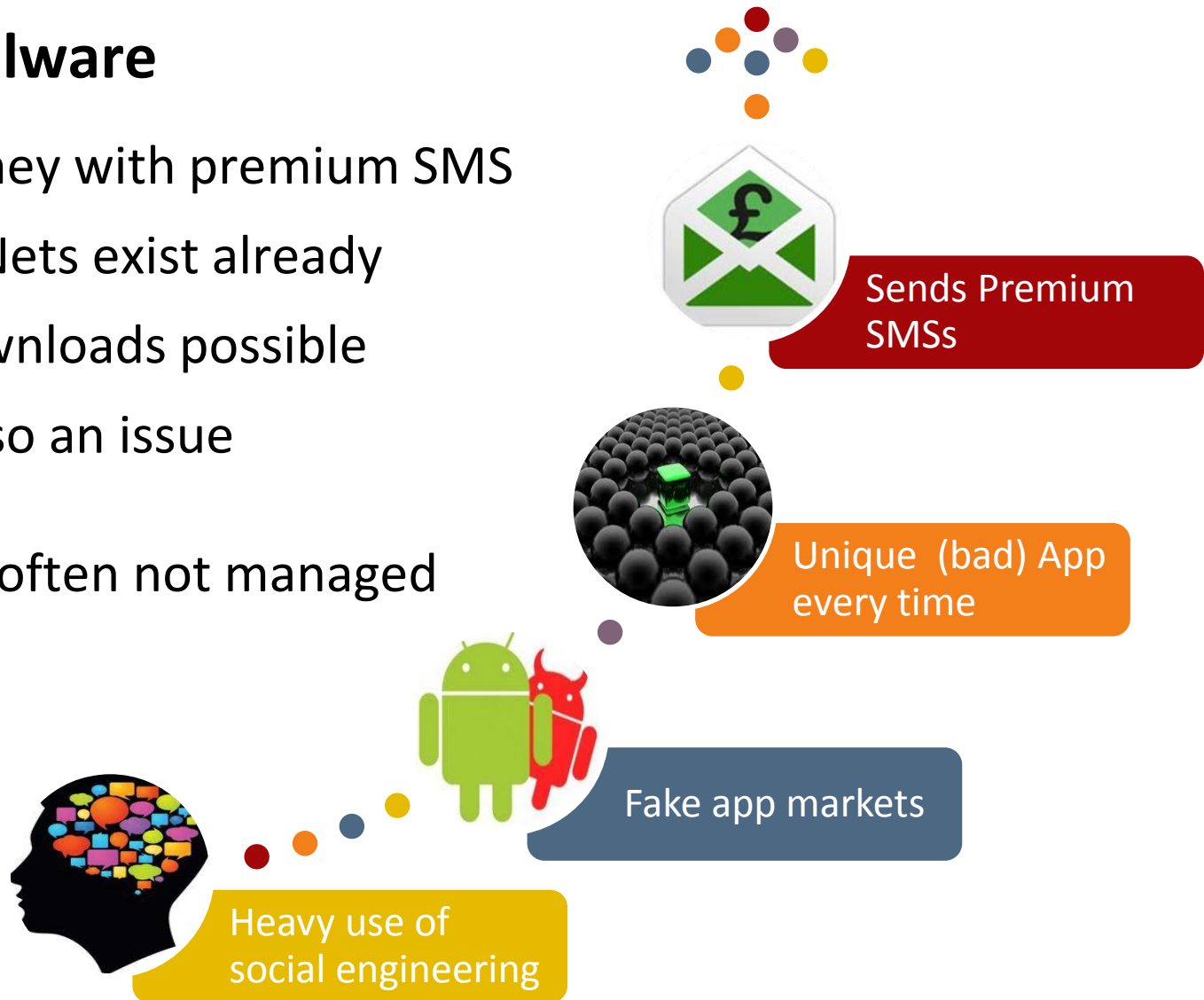
Attempts to corrupt or modify data

Purpose is to disrupt operations of an enterprise or for financial gain

Can also occur unintentionally

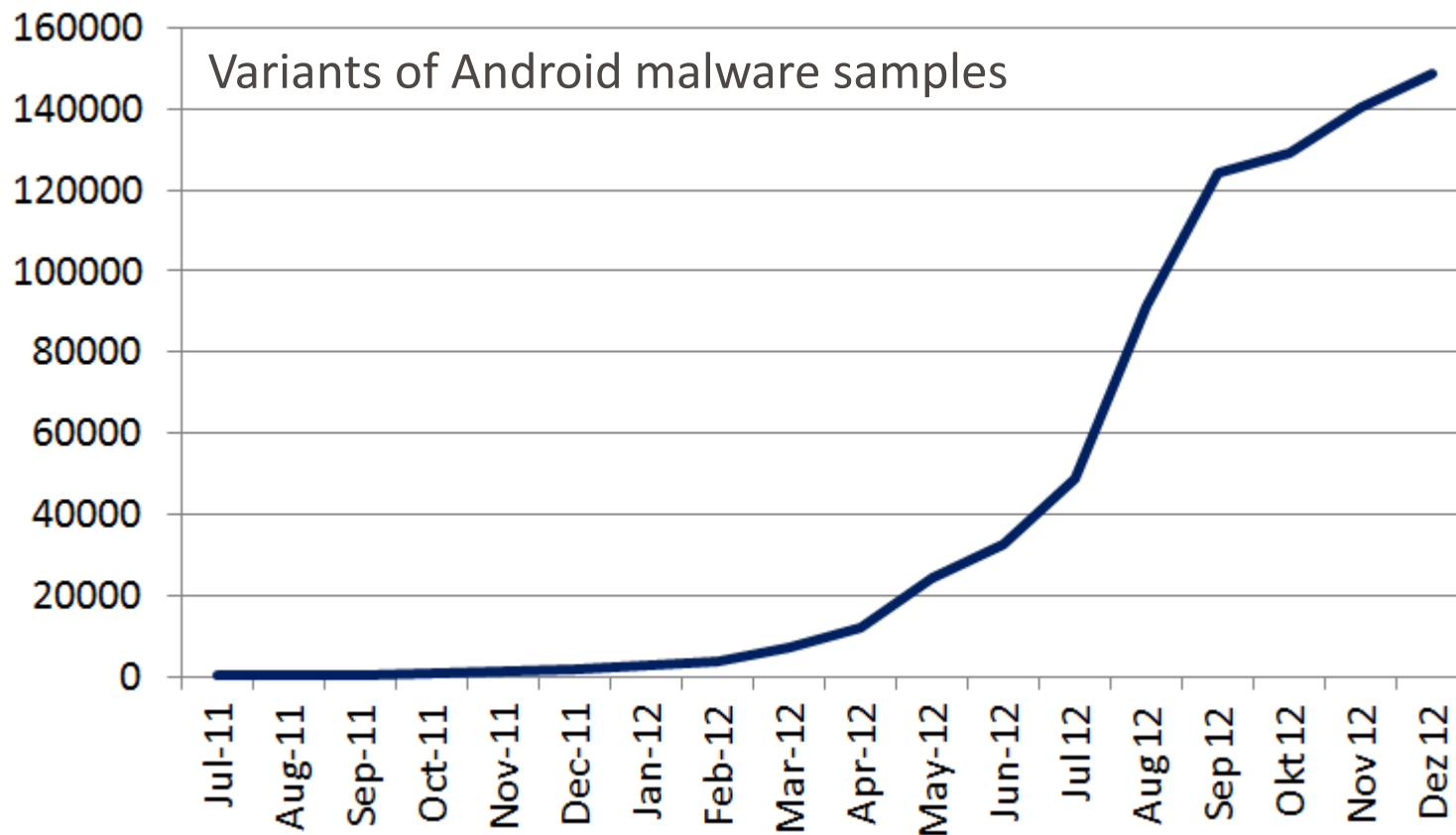
Android Malware

- Making money with premium SMS
- Mobile BotNets exist already
- DriveBy Downloads possible
- Privacy is also an issue
- Devices are often not managed



Android Malware statistics

- 224 Android malware families in December 2012
- 150'000 different sample variants



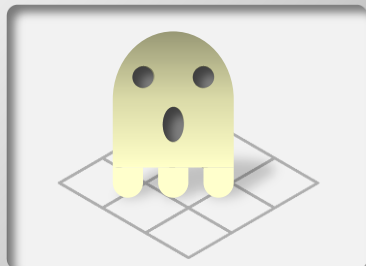
A close-up photograph of a hand typing on a keyboard. The background is a dark field filled with white binary code (0s and 1s). The word "PASSWORD" is highlighted in a reddish-pink color. The lighting is dramatic, with the hand and keyboard keys in shadow against the glowing binary background.

PASSWORD

Where is your critical data
and who can access it?

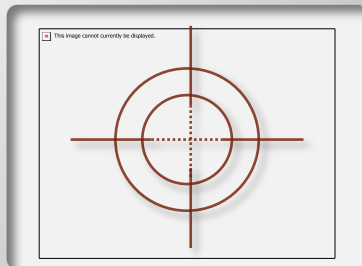
Examples of targeted attacks

Ghostnet



JUN 2008

W32.Stuxnet



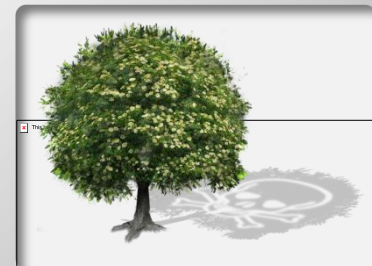
JUN 2009

Night Dragon



FEB 2011

Elderwood



SEP 2012



Hydraq/Aurora



DEC 2009

W32.Duqu



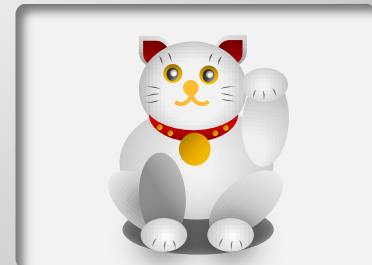
SEP 2011

Trojan.Taidoor



FEB 2012

LuckyCat



FEB 2012

Information Theft

Types of Info

Designs

Business Plans

Financial Info

Personnel Info

Information is
source of wealth
&
power

Information is
a key asset of
any organization

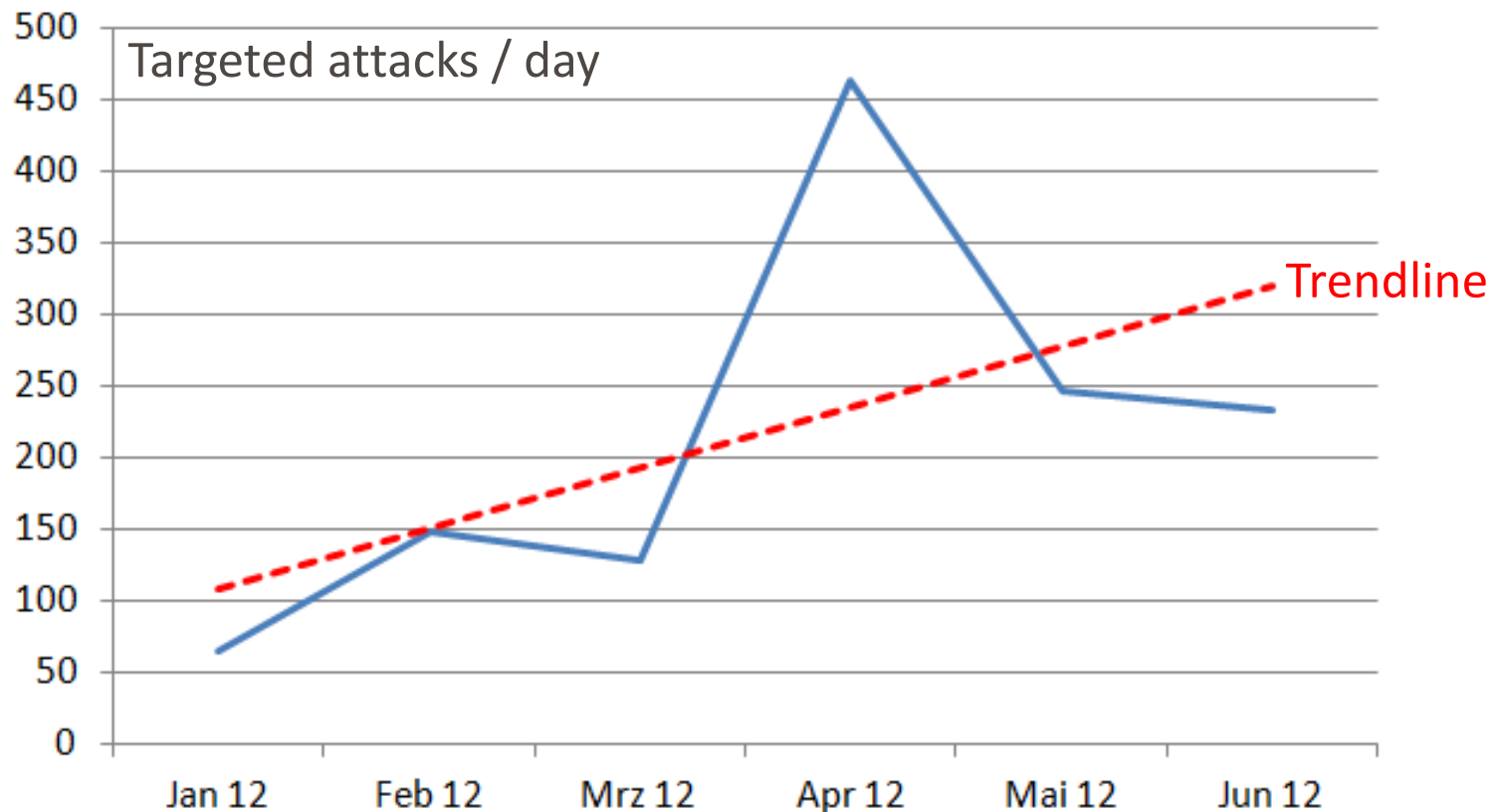


Top 10 sectors of targeted attacks



Targeted attacks do happen daily

- Small business often targeted, because not well protected, but connected to others



How Are The Attacks Carried Out?

Spear Phishing



Send an email to a person of interest

Watering Hole Attack



Infect a website of interest to your target user base and lie in wait for them

Some groups do have many 0-days & large resources

December, 2010
CVE -2010-0249

March, 2011
CVE -2011-0609

June, 2011
CVE -2011-2110

May 7, 2012
CVE -2012-1875

May 30, 2012
CVE -2012-1889

2010

2011

2012

April, 2011

CVE -2011-0611

April 24, 2012

CVE -2012-0779

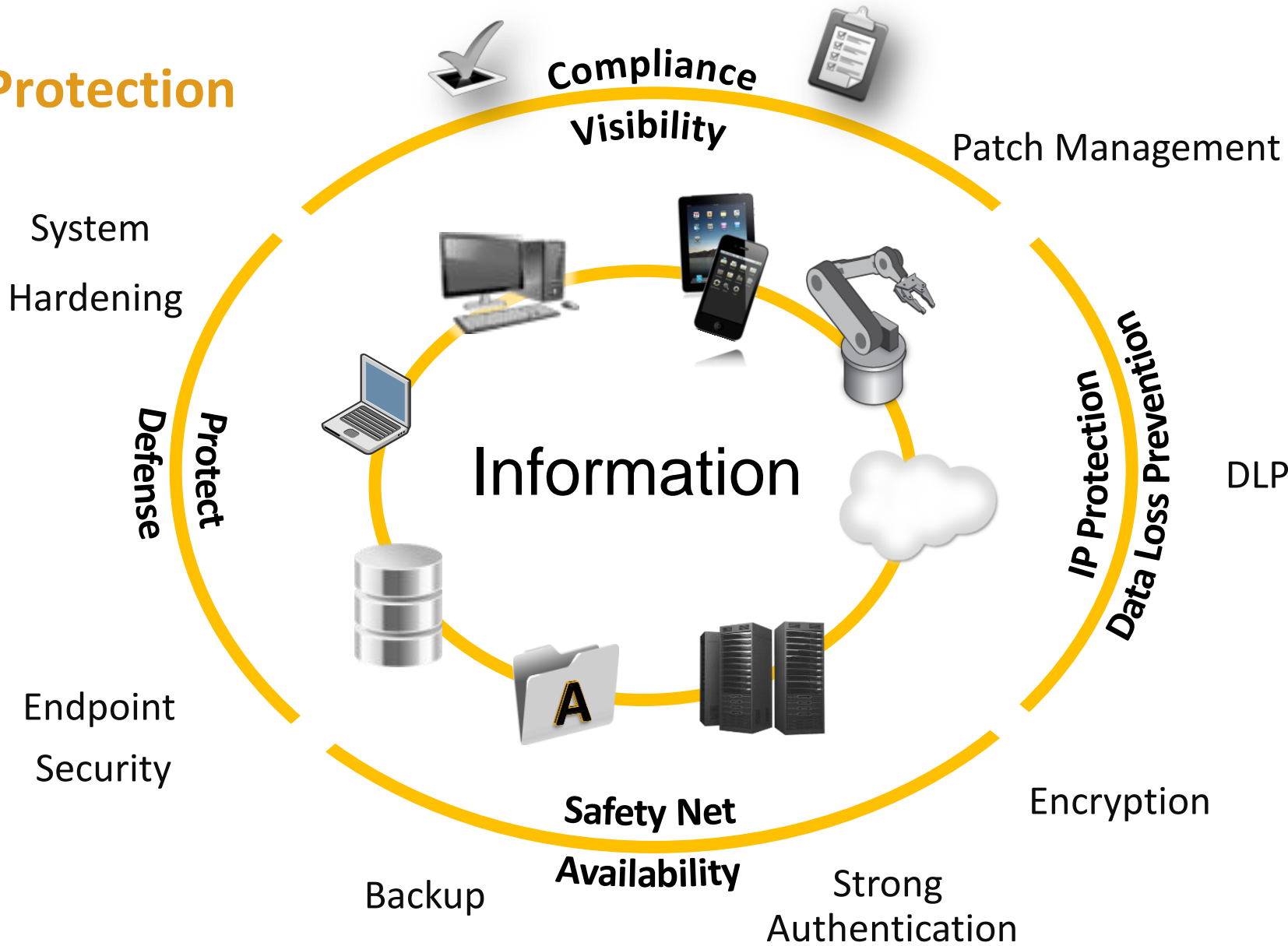
August 15, 2012

CVE -2012-1535



The elderwood gang used 4 0-days in 2012 alone

Protection





Q&A

Merci de votre attention!

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