Data breach notification in the EU
The policy and compliance challenges

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Symantec Government Affairs

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Sophisticated Attacks

Complex Heterogeneous Infrastructure

Information Explosion

Increased Cost of Incidents

Key Security Challenges Today

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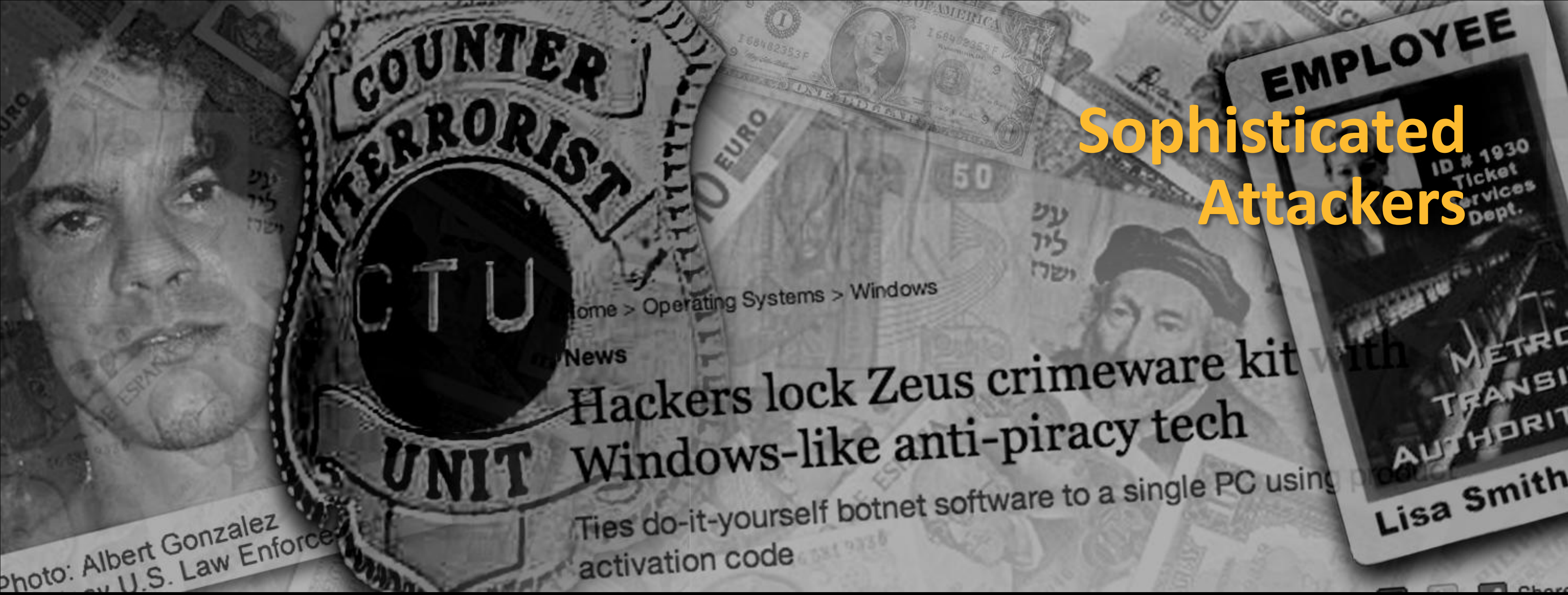
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Photo: Albert Gonzalez
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Sophisticated Attackers

90% of breaches involved organized crime targeting corporate information

97% of breaches in 2009, compromising 140 million records, used customized malware

Average number of systems impacted before malware mutation 15

48% of breaches involved insiders

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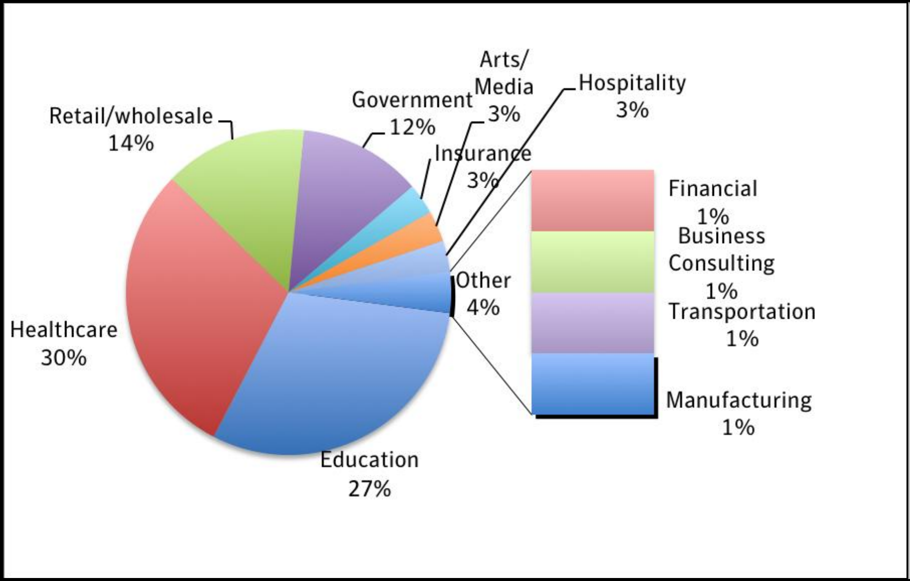
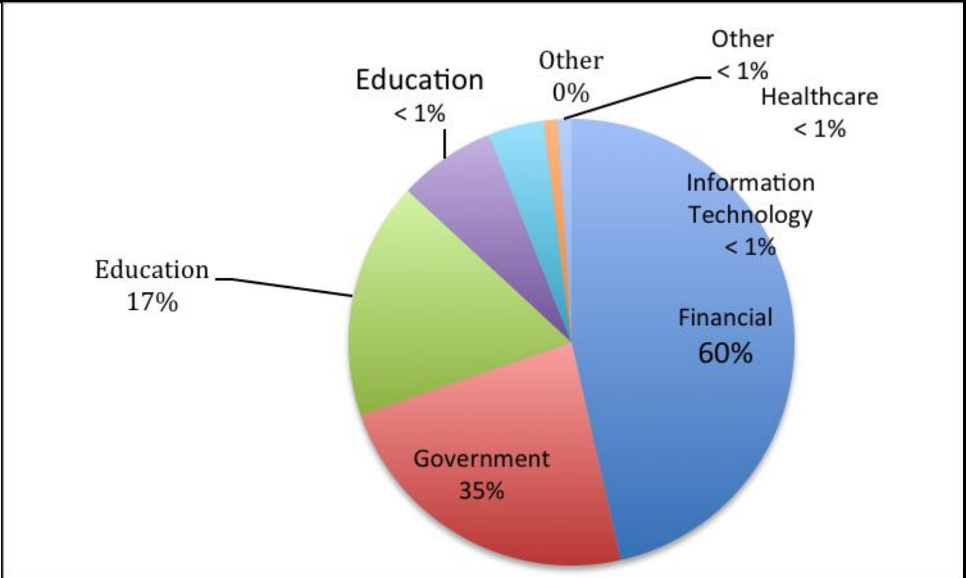
Data-Theft/Data-Loss – Quarterly report

- Healthcare and Education responsible for the majority of data breaches
- Financial Services and Government responsible for the most exposed identities
- Recent incidents demonstrate that none is immune to breaches





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Complex Heterogeneous Infrastructure

By 2011 1 billion mobile devices will access the internet

98% of breached data in 2009 came from Apps and Servers

Corporations will spend $6.4 billion on Cloud in 2014 up from $3.8 billion in 2010

17% of physical servers virtualized by 2010

Information Explosion

Subject: Your mailbox is over its size limit
Importance: High
Your mailbox has exceeded one or more size limits
Your mailbox size is 293721 KB.
Mailbox size limits:
You will receive a warning when your mailbox
Microsoft SharePoint 2010
Home
SharePoint
Overview Video
The business

Digital data is up 600% in 5 years to 988 exabytes in 2010

88% of companies cannot answer "what are our information risks today" in less than two weeks

Corporate information grows ~66% every year

Each day 600 million email messages are sent containing unencrypted confidential data

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Increased Value of personal data

PCI DSS COMPLIANT
GLBA
Gramm-Leach-Bliley
Compliant
COMPUTERWORLD
ome > Security > Cybercrime and Hacking
lews
breach expenses pegged at $140M -- so far
$42M to fund future settlements
HIPAA

Value of digital information stolen in 2009 was ~ $1 trillion

Average cost of a data breach in the EU is €97 per record

Average total cost of a data breach in the EU is €2.12 million

38% view banks less favorably after a data breach

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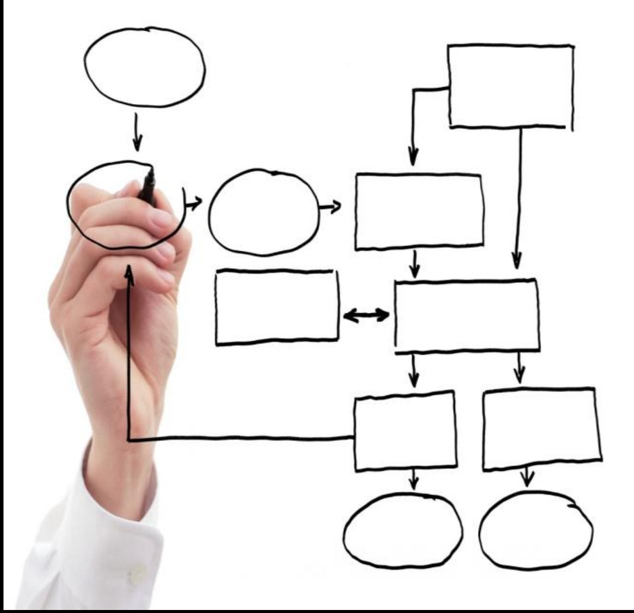
Where is technology going?

- Information vs Systems
- Public and private clouds
- Mobility
- The rise of the social network
- More targeting, context and relevance of personal data
- Massive amounts of personal data
- More targeted attacks and more breaches
- Traffic becoming an key security indicator
- Identity a component of security
- An expectation of security and easy access
- Things we cannot imagine……..



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The Current Approach Is Not Working

Spending More

Stopping Less

Analyzing the Data Protection/Security Challenges

Develop and Enforce
IT Policies

Protect the Information

Authenticate Identities

Manage Systems

Protect the Infrastructure

This translates to……..

Develop and Enforce IT Policies	*Policy Driven and Risk Based*
Protect the Information	*Information and*
Authenticate Identities	*Identity Centric*
Manage Systems	*Well Managed over a*
Protect the Infrastructure	*Secure Infrastructure*

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Develop and Enforce IT Policies

IT Governance, Risk & Compliance Platform

Define risk and develop IT policies

Assess infrastructure and processes

Report, monitor and demonstrate due care

Remediate problems

Protect the Information

Data Loss Prevention & Encryption Technologies

Discover sensitive information

Define ownership and access rights

Enforce acceptable use

Remediate process and policy deficiencies

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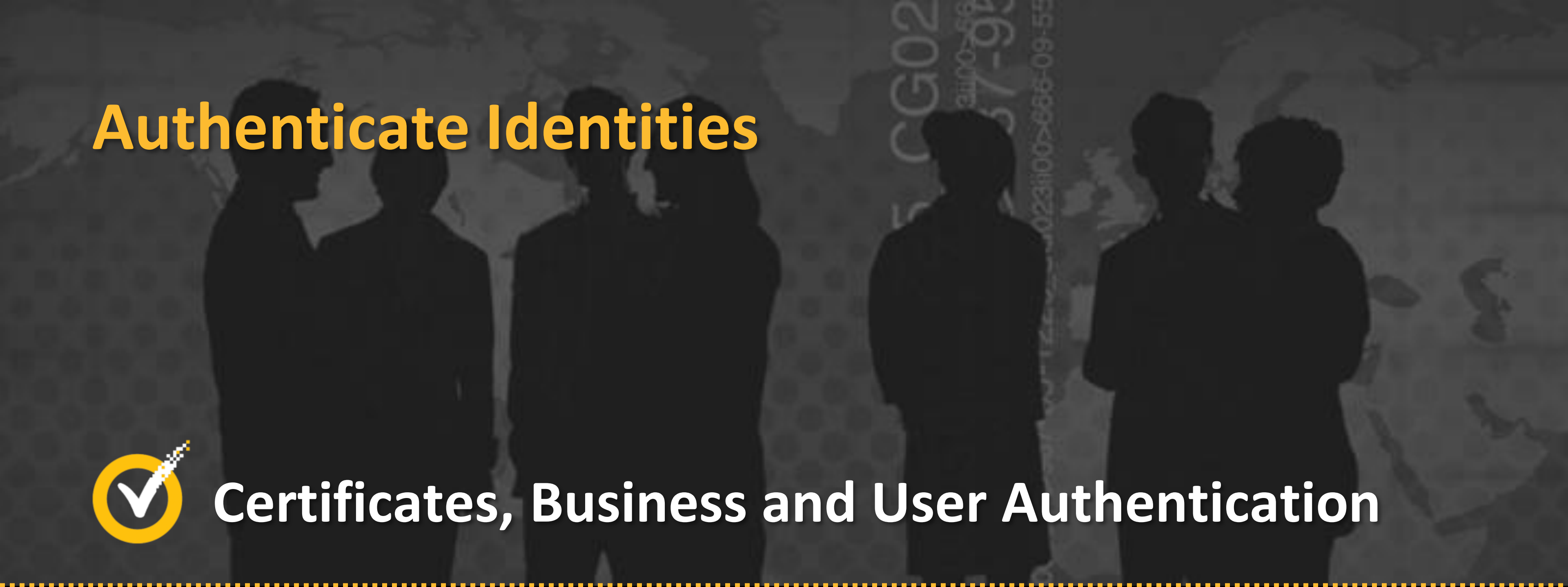
Authenticate Identities



Certificates, Business and User Authentication

Validate identities of users, sites and devices

Provide trusted connections

Authenticate transactions

Control access

Manage Systems

IT Management & Workflow

Implement secure operating environments

Enforce patch levels

Automate IT processes

Monitor system status

Protect The Infrastructure

Endpoint, Network, Web and Mail Security

Monitor and correlate incidents

Protect email and web

Secure endpoints & harden critical servers

Backup and recover data

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Key Questions To Ask Yourself

- Do you know where sensitive information resides and how to protect it?
- Can you lower costs AND improve your security posture by rationalizing your security portfolio?
- Can you enforce IT policies and remediate deficiencies?
- Can you control who has access to your information?
- Can you easily manage the lifecycle of your IT assets?

Where is regulation going?

- Data governance laws are here to stay
- Expectation that in some format data breach will be extended to cover not just telecoms
- General data breach requirements in some EU Member States already
- Accountability and transparency principles
- Broad scope of definition of personal data
- Cloud and jurisdictional challenges
- The role of controllers and processors

Our take on the ENISA study

- Everything is a question of risk appetite
- Security is about cost and economics
- Breaches in-house or out of the house demonstrate there is an issue
- Some more clarity is required on processes and priorities
- The right incentives are in place
- Regulation should not hamper the effectiveness of security
- DPAs have an important role to play
- Collaboration with private sector is key to the success of the system
- People, Process and Technology

enisa
European Network
and Information
Security Agency

People

Information

CONFIDENCE

Develop & Enforce IT Policies

Protect Information

Authenticate Identities

Manage Systems

Protect the Infrastructure

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Thank you

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