

Security in tune with business

The 8 Critical Success Actions for IT security
by Alberto Partida

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OWASP
The Open Web Application Security Project

About me...

Alberto Partida

- IT security professional
- 10+ year experience
- Industry (telecom and banking) and academia
- UPM Telecommunication Engineer
- SANS GIAC Gold GSEC, Gold GCFW, Gold GCFA
- SANS GCIA & GREM
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Critical Success Actions (CSAs)

***business objectives
your customers, your culture
link with IT strategy***

***baby steps, close doors
show facts
provide value
transparent and wise investment
management support***

Critical Success Actions (CSAs)

From factors...

What customers want and what companies need to compete

... change factors into actions ...

What we need to DO in IT security to enable the business
and enhance our added value (and daily experience)

Reflect business objectives

“Business is in business to do business (and not security)”
(adapted from M.Poor, 2005)

BUSINESS

Know the business you are in
Meet colleagues in business areas
Gather data
Understand a business discussion

Follow business objectives
Remember the crown jewels?

Share your objectives with business areas (BAs)
Explain to BAs what you do

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Birchall et al. (2004), ISO (2005)

Be consistent with customers & culture

Are you trying to change the business culture?
Often not possible nor requested by the organisation

BUSINESS

Power distance
Consensus-driven?

Avoid unclear risk ownership
Stakeholder theory

Leadership
Trends and tendencies

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ISO (2005)

Link IT security with IT strategy

Information resides on IT systems
IT security allocates and mitigates risk

BUSINESS

Information
Information systems

Know the strategy of your IT shop
Project-driven?
“Home-made” vs. “off the shelf”?

Managed services
Have a chair on IT management board

IT security vs. IT experts? Make swaps

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Follow baby steps and close doors

**From a 3-year programme to a monthly schedule
Strive to finalise activities**

**Use a reference model, a standard
Base your work programme on it but...**

**Break down your plan into pieces
Start A, complete A
Then, start B**

ISF (2005), Straub (1990), von Solms (2005b)

Show facts

Increase the understanding of the need for security
Follow IT security related news

Create ubiquitous security
Raise awareness

Talk business language (no IT jargon)
Explain why you do it

Be a journalist
Get to know the risk appetite

**Thieves take computers from 60+ businesses
in one building (from www.latimes.com April 26, 2009)**

**Former Federal Reserve analyst charged with bank fraud
and identity theft (from www.computerworld.com April 24, 2009)**

**Hospital data on stolen laptop
were not encrypted
(from www.pressandjournal.co.uk
April 24, 2009)**

**Three years after the fact, UK's
Serious Organized Crime Agency has
acknowledged that a lost memory stick caused
it to abandon a major drug case
(from www.timesonline.co.uk April 27, 2009)**



From "Britain's Antiterror Officer Resigns," New York Times, April 10, 2009, at <http://www.nytimes.com/2009/04/10/world/europe/10britain.html?ref=todayspaper> and "Police chief Bob Quick steps down over terror blunder," Guardian, April 9, 2009, at <http://www.guardian.co.uk/uk/2009/apr/09/bob-quick-terror-raids-leak>.

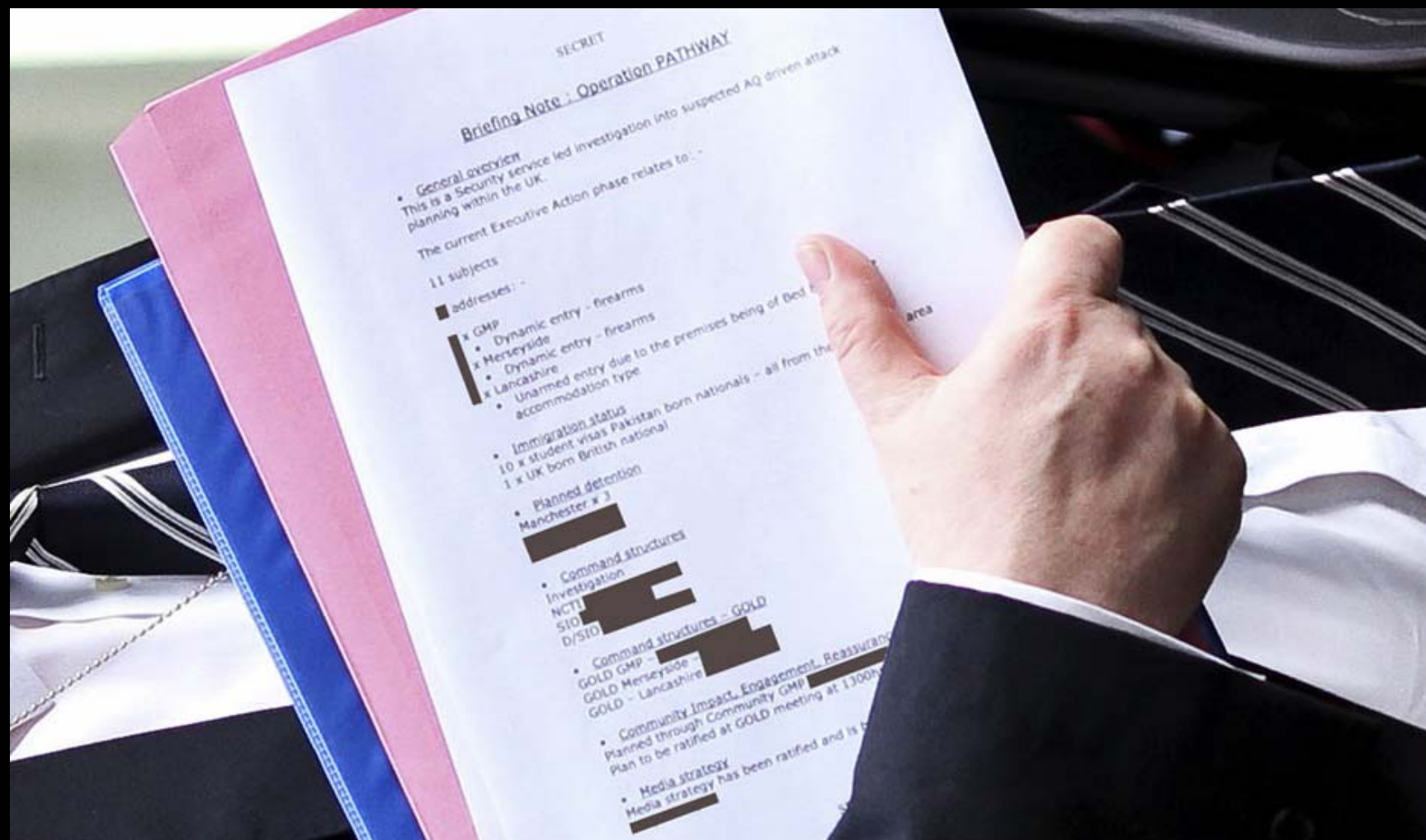


Photo from <http://www.guardian.co.uk/uk/2009/apr/09/bob-quick-terror-raids-leak>

Provide value (not noise)

Articulate the value of IT security... for the organisation
Business value in EUR or USD

Support business

Respond to incidents
Let the SWAT/CERT be the star

Prepare your team
Look after their three dimensions
(professional, spiritual, social)

Invest transparently and wisely

**Prioritise expenditures to mitigate risk
Jump on already running trains**

**Use the “bang for the euro” index
Provide financial transparency to risk metrics**

**A = Cost (mitigating measure)
B = Cost (materialised risk)
 $A < B$ but not always**

Report on incidents and threats

(Aabo et al., 2004; Dillon and Paté-Cornell, 2005; Rinnooy, 2004)

Obtain management support

Support, commitment and sponsorship

Management buy-in is essential for success

BUSINESS

Business processes

Information

Information systems

Risk appetite

**Risk management in job descriptions
Conscious risk awareness**

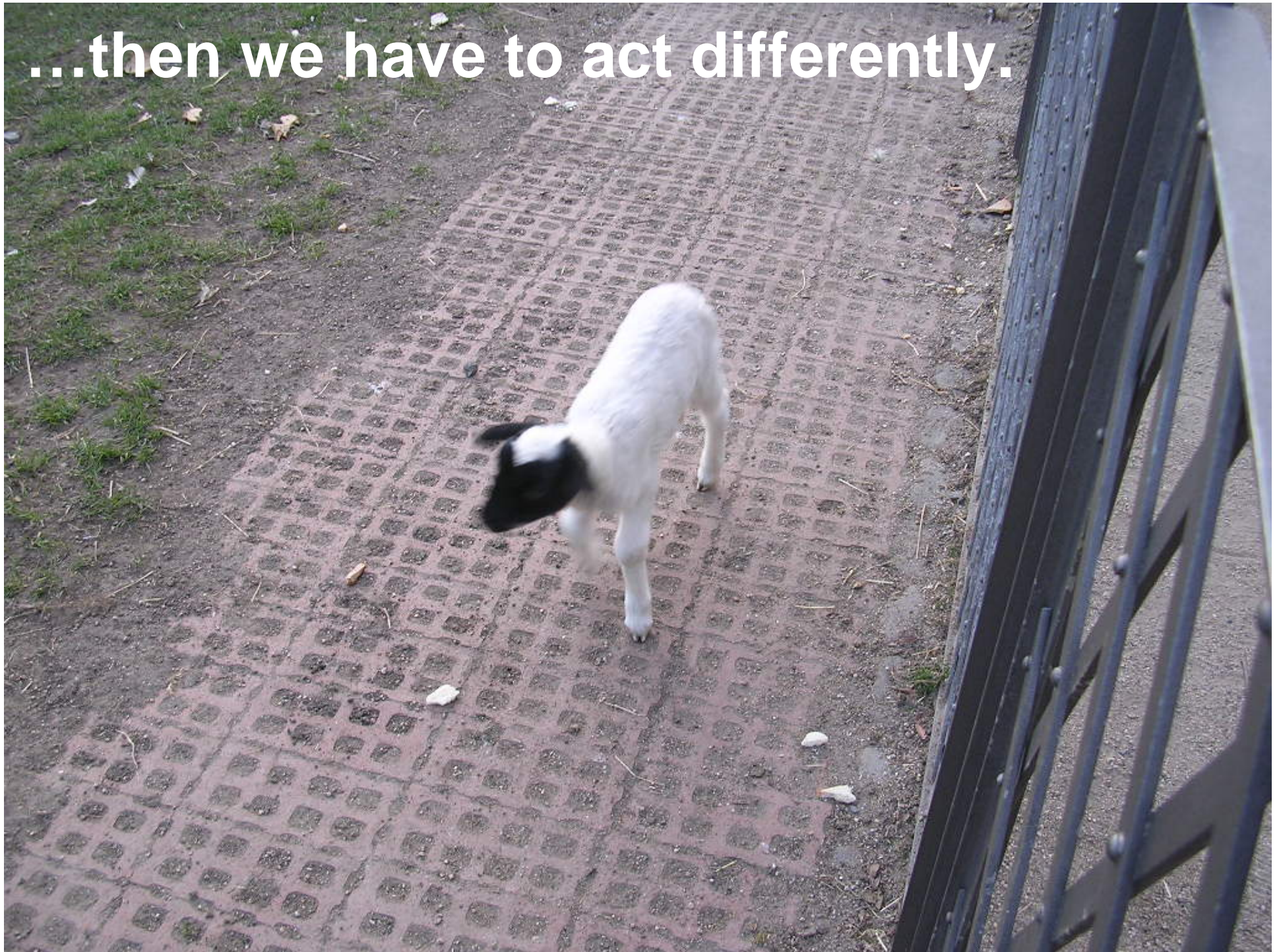
**Focus on people and not labels
Who communicates in the group?**

**But do not mix functions ;-)
Just help to close the gap**



If we aim for a different result...

...then we have to act differently.



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Thank you

Happy to go to...

Q&A

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