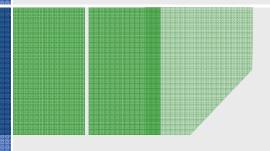
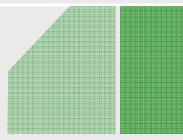
#### **OWASP Europe Conference 2008**



## How Data Privacy affects Applications and Databases



Dirk De Maeyer, KPMG Advisory



**OWASP** 

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- Where do Application Security and Data Privacy meet?
- Data Privacy principles
- Expanding Information Security within Project/Application Development lifecycle



#### Introduction

- **■** EU Directives
- Belgian laws
- Personal data
- Sensitive personal data



## **Legislation: EU Directives**

- Directive 95/46/EC of 24 October 1995 on the protection of individuals with regard to the processing of personal data and on the free movement of such data (**Data Privacy Directive**)
- Directive 2000/31/EC of 8 June 2000 on certain legal aspects of information society services, in particular electronic commerce, in the Internal Market (**Directive** on electronic commerce)
- Directive 2002/58/EC of 12 July 2002 on processing of personal data and the protection of privacy in the electronic communications sector (**Directive on privacy and electronic communications**)



## Legislation: Belgium

- "Wet tot bescherming van de persoonlijke levenssfeer ten opzichte van de verwerking van persoonsgegevens" (8/12/1992, revisions 11/12/1998 and 26/02/2003)
- "Wet elektronische handel" (11/03/2003)
- "Wet elektronische handel 2" (11/03/2003)
- "Wet betreffende de elektronische communicatie" (13/06/2005)



#### Personal data

#### ■ Personal data

- \* "any information relating to an identified or identifiable natural person ('data subject'); "
- ► Examples: cookies, IP addresses, name, national number\*, ...

### ■ Sensitive personal data

- \* "personal data revealing racial or ethnic origin, political opinions, religious or philosophical beliefs, trade-union membership, and the processing of data concerning health or sex life. "
- ▶ Also judicial: offences, criminal convictions, ...



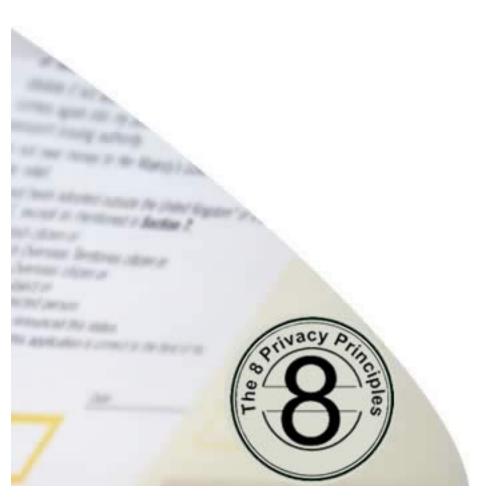
## Where do App. Security and Data Privacy meet?

- "Forgetting" data privacy requirements during initiation phase
- Use of cookies
- Use of e-mail for publicity (opt-in)
- Vulnerabilities may lead to "unauthorized" access to personal data
- **.** . . .



## **Data Privacy - principles**

- Fair processing
- Notice
- Choice
- Accuracy
- Security
- Access
- Onward Transfer
- Enforcement





## Security and Data Privacy requirements

- Explicit requirements when registering with Belgian Data Protection Authority (Privacy Commission)\*
  - Security policy
  - Security officer
  - Security organisation and people aspects
  - ▶ Physical and environmental security (incl. BU)
  - Network security
  - Logical access security
  - ▶ Logging, monitoring, investigations
  - ▶ Maintenance, supervision, control
  - ▶ Security incident and continuity management
  - ▶ Documentation



# **Expanding Information Security within Project/Application Development lifecycle**

- **■** Business Impact Assessment
  - ▶ Focus on Confidentiality, Integrity, Availability
  - Extend to include Data Privacy
- Data Privacy Questionnaires
  - ▶ Gathering responses on 8 principles
  - ▶ Example



## **Questions?**

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