EU2009.CZ

eID technology perspectives

Understanding and Using eID – A European Challenge

Prof. Dr. Reinhard Posch
CIO des Bundes

eID --- PREVENTIVE HEALTHCARE FOR ICT

Mail Online

Tax website shut down as memory stick with secret personal data of 12million is found in a pub car park

By DANIEL BOFFEY
Last updated at 3:05 PM on 02nd November 2008

Comments (111) | Add to My Stories

Ministers have been forced to order an emergency shutdown of a key Government computer system to protect millions of people's private details.

The action was taken after a memory stick was found in a pub car park containing confidential passcodes to the online Government Gateway system, which covers everything from tax returns to parking tickets.

An urgent investigation is now under way into how the stick, belonging to the company which runs the flagship system, came to be lost.

EU2009.CZ

eID :: SIMPLE SOLUTIONS EASILY BROKEN

Spammers create accounts at free mail services like Yahoo Mail or Gmail, but to make the process more efficient, they need to automatize it. The major challenge is that most web mail providers use CAPTCHAs ("Completely Automated Public Turing test to tell Computers and Humans Apart") and they are difficult to solve automatically. Last month, Websense Security Labs discovered that spammers managed to create bots that automatically sign up for new Gmail accounts with a success rate of 20%.

http://googlesystem.blogspot.com/2008/03/more-spam-originating-from-gmail.html

http://webspamprotect.com/captcha_service.php

EU2009.CZ

ATTACKS ARE A BUSINESS

Soloway case reveals big business behind spam

By Nancy Gohring , IDG News Service , 07/15/2008

Share/Email   Buzz up!   Comment   Print

Selling the tools used by spammers is easy money, at least until you get caught. Just ask Adam Sweaney, a man charged with computer fraud who took the stand at the sentencing hearing in Seattle for Robert Soloway, the so-called spam king.

Sweaney said he earned about US$2,500 a month for a couple of years selling botnets that could be used for a variety of activities including sending spam e-mails. He didn't even write them himself, but he traded or bought them in online forums, he said.

http://www.networkworld.com/news/2008/071508-soloway-case-reveals-big-business.html

Security threats are changing. However there is not sign that the overall security and security perception is improving.

eID :: KEEPING THE FOCUS

By 2010 all European citizens, businesses and administrations shall benefit from secure means of electronic identification (eID) that maximise user convenience while respecting data protection regulations. Such means shall be made available under the responsibility by Member States but be recognised across the EU.

By 2010 Member States will have agreed a framework for reference to, and use of, authenticated electronic documents across the EU.

eID :: ALL NEED TO UNDERSTAND THE DIFFERENCE

- travel documents and biometry

    - too often misunderstood in its purpose important but out of scope for the internet

- identification + authentication

    - e.g. banking :: eID by itself is not a willful act concerning the content

- **identification for the internet**

    - **security privacy**

EU2009.CZ

eID :: COPING WITH TECHNOLOGY „TRENDS"

- **CONTACTLESS**

  - it is not only a technology challenge

  - physical disconnection needs new paradigms

- **MOBILE AND MULTICHANNEL**

  - it is on the table since long

  - the challenge has not yet been met

    - TECHNOLOGY

    - BUSINESS CASE

- **THE USER AND THE SERVCIE RESIDES IN THE CLOUD**

  - **shared services**

  - **cloud computing**

  - **INFO CARD, LIBERTY ALLIANCE, DK,DE,FR,NZ,AT .. eID DOMAINS**

MISSING QUALITY eID HAS SEVERE CONSEQUENCES

ONE WAY ←

All participants
Participants older than 50 years
Participants younger than 36 years

Chart values:
- Would change the bank: 76% / 87% / 73%
- Would not change the bank: 9% / 5% / 11%
- I don't know/Not applicable: 15% / 8% / 16%

The Value of Information Security to European Banking Institutions
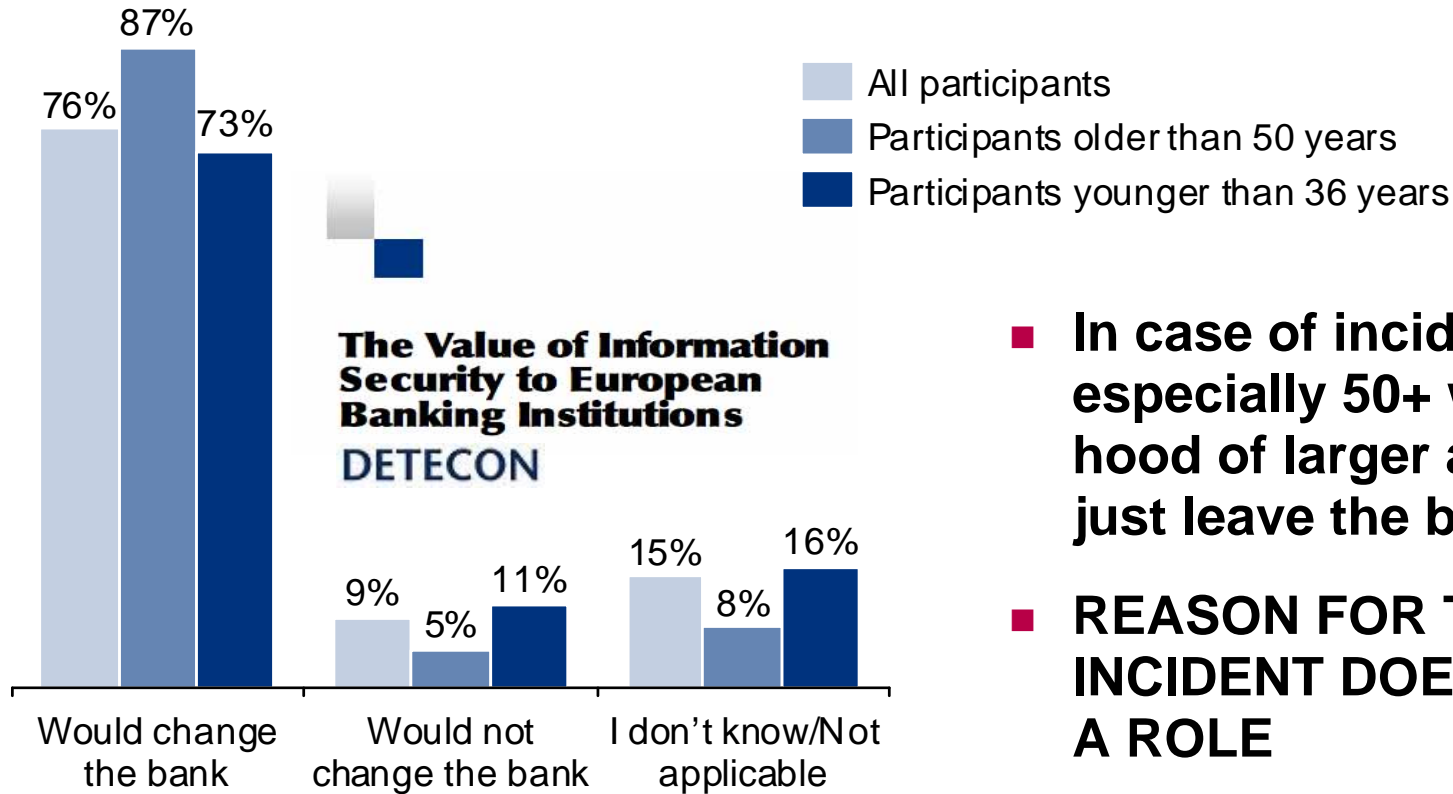**DETECON**

Figure 8: Intention of changing the bank in cases of security breaches (lacking confidentiality).

- **In case of incidents users – especially 50+ with likely-hood of larger accounts will just leave the bank**

- **REASON FOR THE INCIDENT DOES NOT PLAY A ROLE**

BANKS WILL NEED TO OFFER SECURE METHODS TO KEEP THEIR CLIENTS.

EU2009.CZ

HOW Can eID WORK

- WHAT I HAVE + WHAT I KNOW
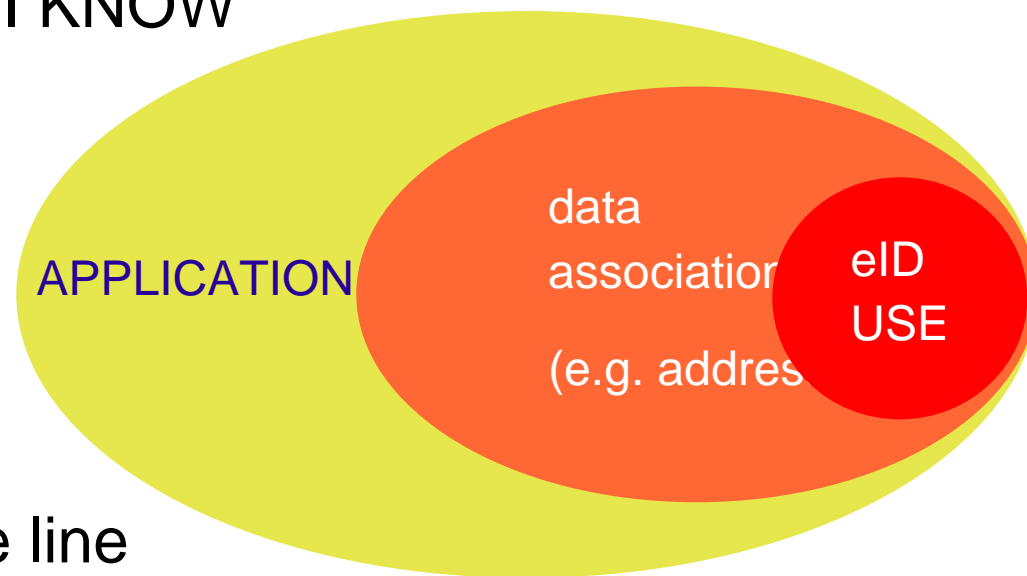
  - personal token

  - personal secret

- NO TOKEN?

  - exposed to phishing

  - exposed to taping the line

- NO PERSONAL SECRET?

  - exposed to token loss

  - biometric features not assumed to be secrets

- **BOTH FEATURES NEEDED FOR SUSTAINABLE eID**

APPLICATION

data association (e.g. addres

eID USE

WHAT DO WE NEED TO PREVENT FROM

- **abuse by the owner**

    - passing on knowledge and token

    - might be breaching of law / contract in some cases but unlike with ID-documents this is not a real abuse

- **abuse by third party**

    - **without knowledge / consent of the owner**
    - **CRITICAL eID RISK**

STORK = A MAJOR STEP

|	Description	LEADER
WP1	Project Management	Atos
	DEFINITION	
WP2	eID inventory, trust and application groups	NL MOI
WP3	eID and upcoming technologies	AT TUG
	ARCHITECTURE	
WP4	eID process flows	UK IPS
WP5	eID and common specifications	BE FEDICT ES MAP
	IMPLEMENTATION	
WP6	Pilots (specification – definition – implementation - evaluation)	
WP7	Communication and Sustainability	Gov2U

THE PILOTS = A PRIME NEED

	Pilot description	LEADER
PILOT 1	Cross-border authentication platform for electronic services	UK IPS
PILOT 2	SaferChat	IS MOF
PILOT 3	eID Student mobility	ES CRUE
PILOT 4	eID Electronic delivery	AT TUG
PILOT 5	Change of address	PT AMA
	Evaluation and feedback	NL MOI

STORK = INTEROPERABILITY

AT-DE eID synergies
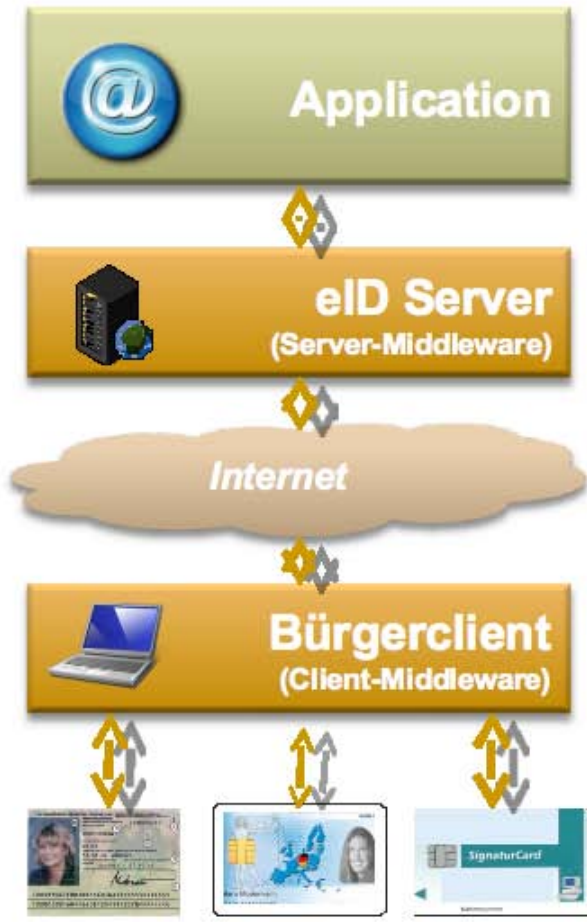
A2A INTEROPERABILITY

- **STORK to integrate into ECAS enabling eID for access to services of the EU for Member states. The goal is to access CIRCA, IMI and such like services.**

- **FIRST TRIAL IMPLEMENTATION TO BE IN OPERATION BY END OF 2009**

  - **BE**

  - **UK**

  - **AT**

eID WHOM TO IDENTIFY

- **natural persons**

    - in the interest of individual, business and government (Manchester declaration)

- **non-natural persons**

    - eID/mandates in the interest of governments (companies)

- **services**

    - today not efficiently done

    - in the interest of the individual / privacy etc.

WITH THE VERY DIFFERENT SCENARIOS (BUSINESS, GOVERNMENT, SOCIAL NETWORKS,..) WE FACE A VARIETY OF DIVERGING INTERESTS, DEMANDS AND DRIVING FORCE IN THE FIELD OF eID

INCREASING DATA PROTECTION NEEDS
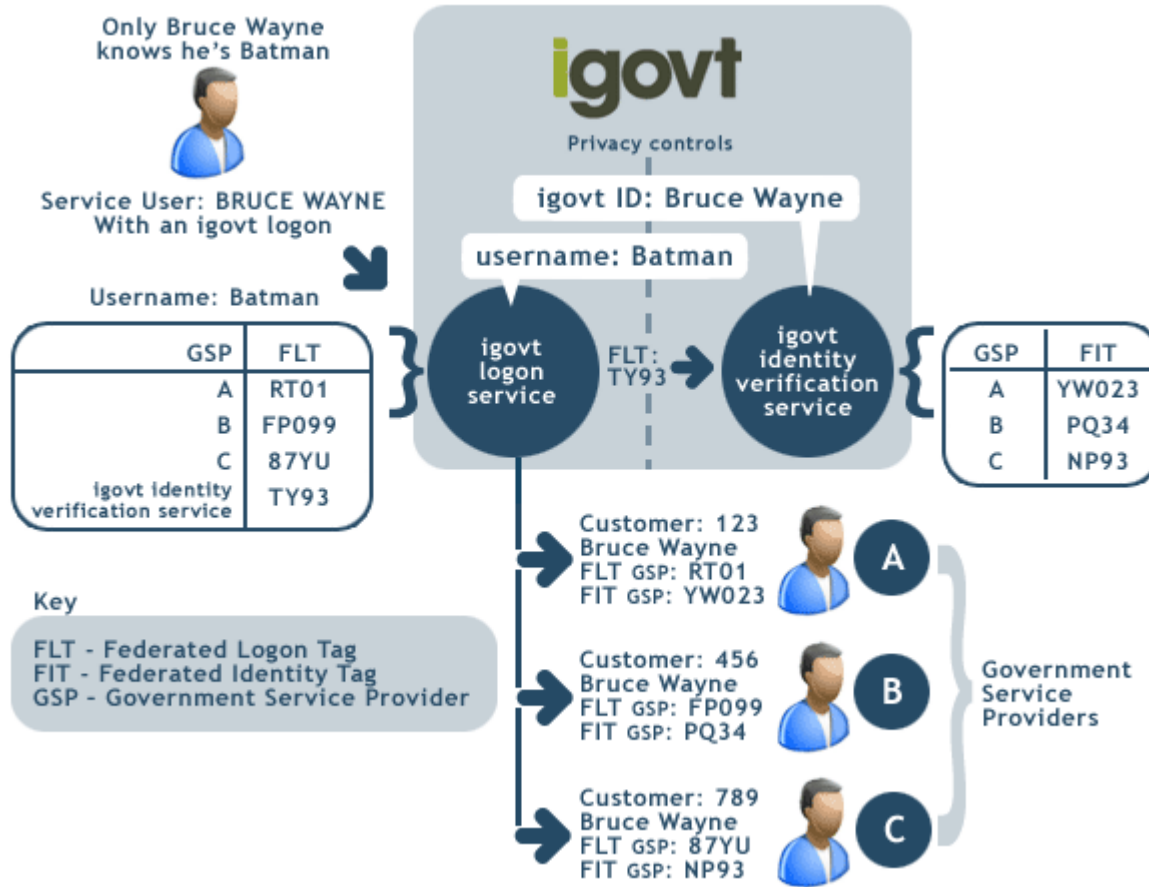
- NOT ONLY IN EUROPE (EXAMPLE NZ)

- EUROPE

- DK

- DE

- AT

- enabling cross domain activities

- enabling business use

DIVERSIFICATION OF IDENTIFIERS

EU2009.CZ

STEADY TECHNOLOGY CHALLENGE

MOBILITY → SECURITY → INSTANT USE ZERO FOOTPRINT

Valimo Provides Telenor Sweden With Mobile ID Service

COMMERCIAL MESSAGE

Telenor Sweden is the third largest mobile operator in Sweden based on number of subscribers, with a market share of 18 percent and 1.8 million mobile subscribers. Telenor Sweden will run a pilot and a test phase of Mobile ID service powered by Valimo during 2009.

The need for new authentication solutions like Mobile ID is rapidly growing in the Nordic region, as governments, the public sector and financial institutions are increasingly offering online and mobile channels for accessing their services. These new services require more secure and user-friendly authentication methods such as Valimo Mobile ID.

Operators are recognising the business opportunities that mobile authentication and signature technology enable. New services are quickly becoming available across Europe and Sweden leads the way in the Nordic region.

For further information: Telenor

EU2009.CZ

WE NEED A BETTER UNDERSTANDING OF eID

- NEED TO UNDERSTAND ➲ a Metaframework

- common understanding of goals

- common understanding of needs

- compliance classes and certification?

- THE AVENUE TO GET THERE

- interoperability

- bilateral / multilateral interworking

- WE WILL PROBABLY NOT YIELD A STANDARD

  - BUT A SET OF STANDARDS EVERYONE UNDERSTANDS

  - COMPARABLE TO WEB AND BROWSERS
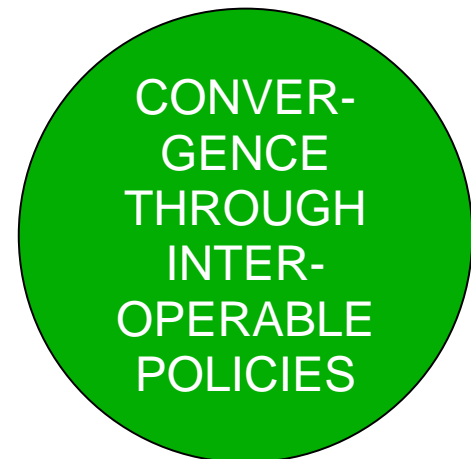
POSSIBLE FUTURE DIRECTIONS

**EUROPEAN
CITIZEN
CARD**

are we ready for this
level of detail?

**USER-CENTRIC
eID METASYSTEMS**

**principles with a focus on
the user, his/her rights and
benefits need to play the
central role**

CONVERGENCE BY
MEANS OF STANDARDS

CONVER-
GENCE
THROUGH
INTER-
OPERABLE
POLICIES

THANK YOU FOR LISTENING