

Ticket to trouble

Technology always fails

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Mifare Classic, The Dutch Transportation Card and Access Control

The experience of a journalist

Brenno de Winter, wgasa

- From the Netherlands
- Self proclaimed geek
- First program at age 5
- Focus on security, privacy
- Journalist, trainer/consultant
- Following Mifare Classic from day one
- Wanna know more? Beer makes me talk!

On the record

Everyone has the right to freedom of expression. This right shall include freedom to hold opinions and to receive and impart information and ideas without interference by public authority and regardless of frontiers.

Why I do this talk

Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof; or abridging the freedom of speech, or of the press; or the right of the people peaceably to assemble, and to petition the Government for a redress of grievances.

Defcon 2007

Thou shall not like Segway's

I got arrested for photographing
a railway employee
working on a Segway



Cool guy!

My first experience

- Angel @ Chaos Communication Camp
- Can you do introduction for the Mifare talk?
- Security through obscurity doesn't work
- Follow up with NXP
- Publication January 2nd
- Reader notices something interesting

Spin-off

- January 11th: Paying with mobile, Shell Gas
- January 17th: Rop Gonggrijp warning that security through obscurity doesn't work
- February 13th: Gold-case
- February 29th: TNO-research replace card in two years
 - No business case
- February 29th: Attack plan has second study

It gets political

- March 3rd New hack pre-announced
- March 10th Study published by Karsten Nohl
- March 13th Nijmegen University cracks doors
- March 17th MI-5 wants to spy on Brittons using the Oyster Card
- March 20th Debate in parliament on door-issue
 - Open Source Security
 - Support for researchers

It gets heated

- March 21st Dutch Secret Service says no interest in travel data (yet)
- April 12th crack cards in seconds
- April 14th new attack scenario
- April 14th Contra Expertise - FOIA
- April 16th Secretary of Transportation is responsible
- April 22nd NXP announces Mifare Plus
- April 29th Customer friendliness has to save card – Privacy is media issue – r.s.c.

Even more S**t

- June 5th – Conclusions altered, DoS, Printer
- June 7th – Unclear who forced conclusions
- June 18th – Oyster Card cracked by Nijmegen
- June 18th – No emergency plan
- June 20th – Open source announced
- July 8th – Lawsuit NXP
- July 10th – Chinese discovery
- July 15th – Oyster Card crash
- July 18th – Verdict in

And then?

