Smart card cloning is easy! (GSM SIMs)

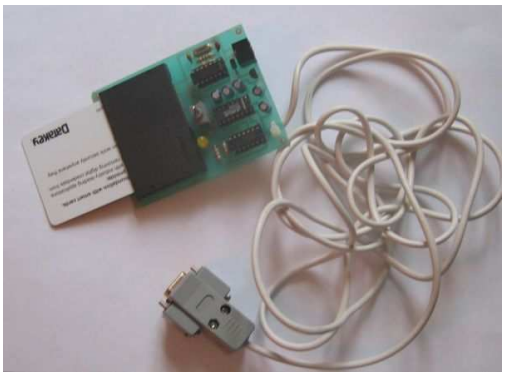
Charles Brookson

The stages

- Scan the SIM to extract IMSI (just read it!) and Ki, the 128 bit key (for COMP128-1 only, so far….)
- Now put the IMSI and Ki into some card software
- And then copy it into a new SIM card
- We now have a cloned SIM

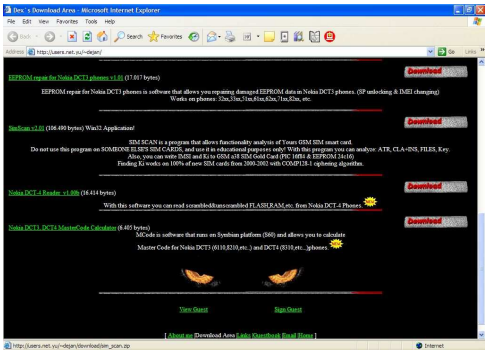
First we need to read the SIM

- A small reader, connected to a serial port. Home made for $5



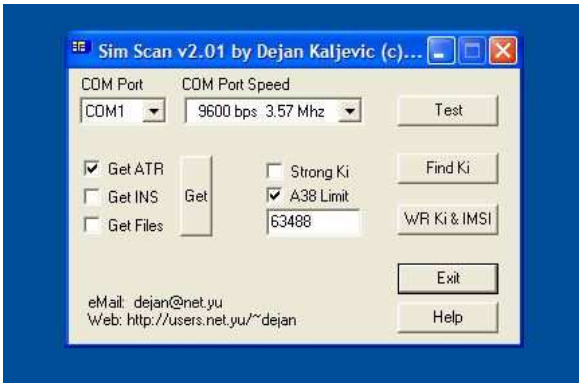
Then we need to find Ki

- We need Ki and IMSI, we can use Simscan from Dejan's pages that will break COMP128-1



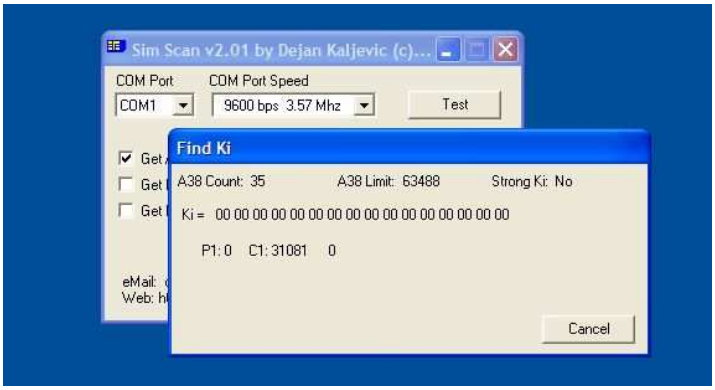
Here's the software

- Simscan ready to go….



Now scanning the card

- Searching for the key

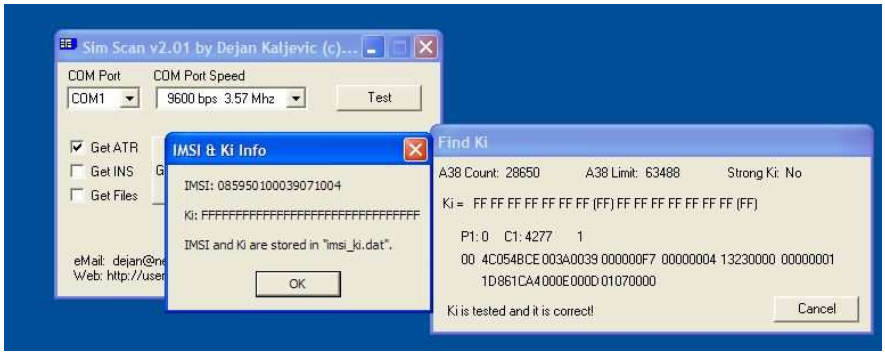


Getting there

- The result slowly appears (this one looks interesting!)

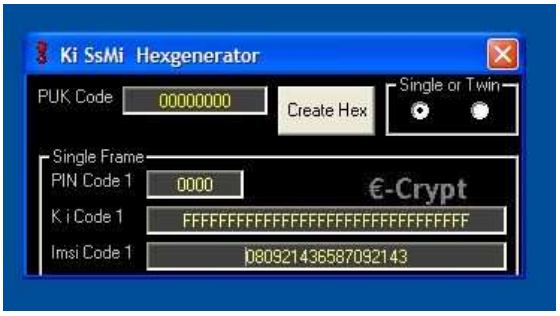
Now we have it!

- This was a SIM supplied to delegates at a meeting, Ki is a bit obvious isn't it!



Now to create the software

- Using some more software from the Internet called KiSsMi we create the software for the card

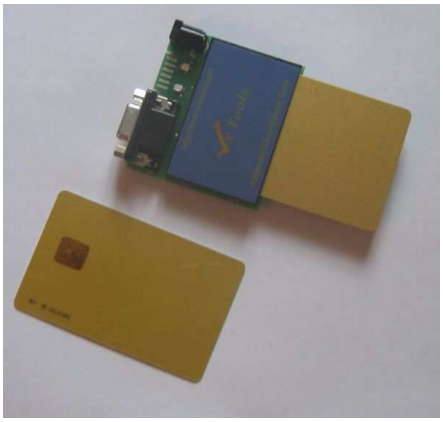


We now need to program the SIM

- We use a single chip PIC computer which is in a SIM shaped package (GOLD CARD)
- We use a smart card programmer (easily bought on the Internet)
- And then we program up the card….

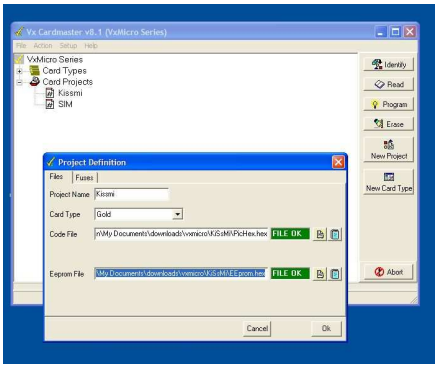
The programmer…..

- With the card ready to go



The software for the programmer

- Just load in the software we created with KiSsMi using VxTools



And we now have a cloned card

- **Note:** *My way is rather long!* Many people sell the equipment cheaply…
- Only works with COMP128-1
- *So now please think about changing to a new algorithm…….*