

The Mobile Internet of Things and Cyber Security

Andy Davis, Research Director NCC Group



Which has recently been in the news with security issues?

1. Rubbish bin



2. POS terminal



3. Refrigerator



Price is low



Gartner: *The Internet of Things, which excludes PCs, tablets and smartphones, will grow to 26 billion units installed in 2020*



Machine to Machine communications



- Assumptions about who can communicate with these devices



Security through obscurity



- Outdated concept
- Hidden != Protected
- Still alive in the embedded world
- Who would want to reverse-engineer this?



Software updates?



- Auto-updates?
- Manual updates unlikely
- Vulnerabilities persist for years



End users / OEMs: What do you need to know?

- Devices are cheap (for you and for an attacker)
- If machines can talk to your machine then so can humans
- If data need protecting, encrypt it, don't hide it – someone will find it
- If updates are available, make sure you install them
- Attackers are actively targeting these devices

