

RIPE NCC IoT Update

Observations from the field

Security

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Layered model?



Safety



Health & Safety



“We’re not afraid of regulation.”



Health, Safety and Security



Hacking regulation: RED

Radio Equipment Directive (2014/53/EU)



- Mandatory requirements for everything that has a radio
 - Basis in health and safety, together with interoperability
 - Also applies when you communicate via other means
 - e.g. a printer with USB, ethernet, wifi and bluetooth
- Self-assessment on compliance
 - Using CE mark to indicate you're safe
 - Ex-post compliance testing in (external) labs by regulator
 - Non-compliance can result in EU-wide recall

RED and Internet of Things



- Directive has a few “optional” requirements
 - 3.3.d: Do not harm the network or misuse network resources
 - 3.3.e: Protection of personal data and privacy
 - 3.3.f: Protection from fraud
 - 3.3.i: Only compliant software can be loaded
- Can be activated by means of a Delegated Act
 - Decision by European Commission

The Hack



- Activate some of these paragraphs for IoT
 - First round likely to include toys and smart watches
- Enforce (regular) software updates by means of RED
 - Maybe also set default behaviour?
 - Note: We haven't seen a draft text yet
- Who is responsible?
 - Manufacturer, distributor or retailer?



Impact for the RIPE community?



Questions?

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