

Internet Technology

Where are we now?

date	time	lecture	lecturer
April 28	3+4 6+7	Introduction Exercises 1/5	Mattijs
May 3	1+2 3+4	Applications and Multimedia Exercises 2/5 + Lab 1/4	Mattijs
May 12	3+4 6+7	Naming and Addressing Exercises 3/5 + Lab 2/4	Mattijs
May 19	3+4 6+7	Multiple Access and Wireless Networks Exercises 4/5 + Lab 3/4	Mattijs
June 2	3+4 6+7	Internet of Things (IoT) Exercises 5/5 + Lab 4/4	Elmer
June 9	3+4 6+7	Security and Privacy Lab wrap-up (report dd. June 9 at 23:59)	Ramin
June 16		Exam	
July 7		Resit	

2022-06-02 IntTech HC6





Stichting Internet Domeinregistratie Nederland (SIDN)

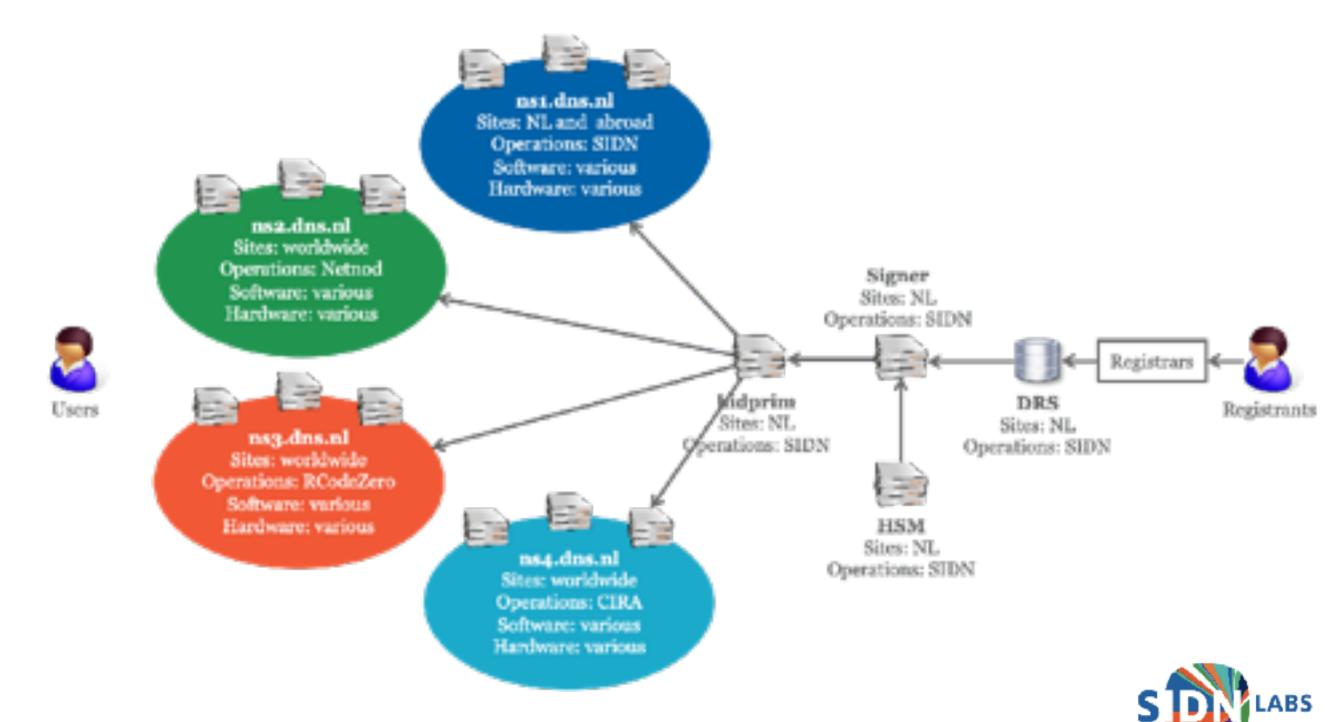
- Objective: increase society's confidence in the Internet
- Provide secure and fault-tolerant registry services for .nl
 - Anycasted DNS services with DNSSEC support
 - Registration and domain protection services
- Increase the value of the Internet in the Netherlands and elsewhere
 - Enable safe and novel uses (SIDN Fonds, IRMA)
 - Increase infrastructure security and trustworthiness (SIDN Labs)
- Not-for-profit private organization with a public role based in Arnhem



.nl = the Netherlands17M inhabitants6.2M domain names3.4M DNSSEC-signed2.5B DNS queries/day8.6B NTP queries/day



Heterogeneous and fault-tolerant DNS infrastructure



SIDN Labs



LIDN Labor Maarten Wullink Brown, being tree



SERVICE FAIR Thymen Wabeke Research anglitect



MINERAL BARRIER Maritz Müller Recent orginal



Marisca van der Donk Managementaciones



Elmer Lastdrager Brosseth engineer



Thijs van den Hout Rosenh Inginor



Ralph Koning Roscan's Engineer



Jefte Januen Research-engineer



Caspar Schutijser BODGET FOR PORT



Cristian Hesselman Directors (SC 1-5) in



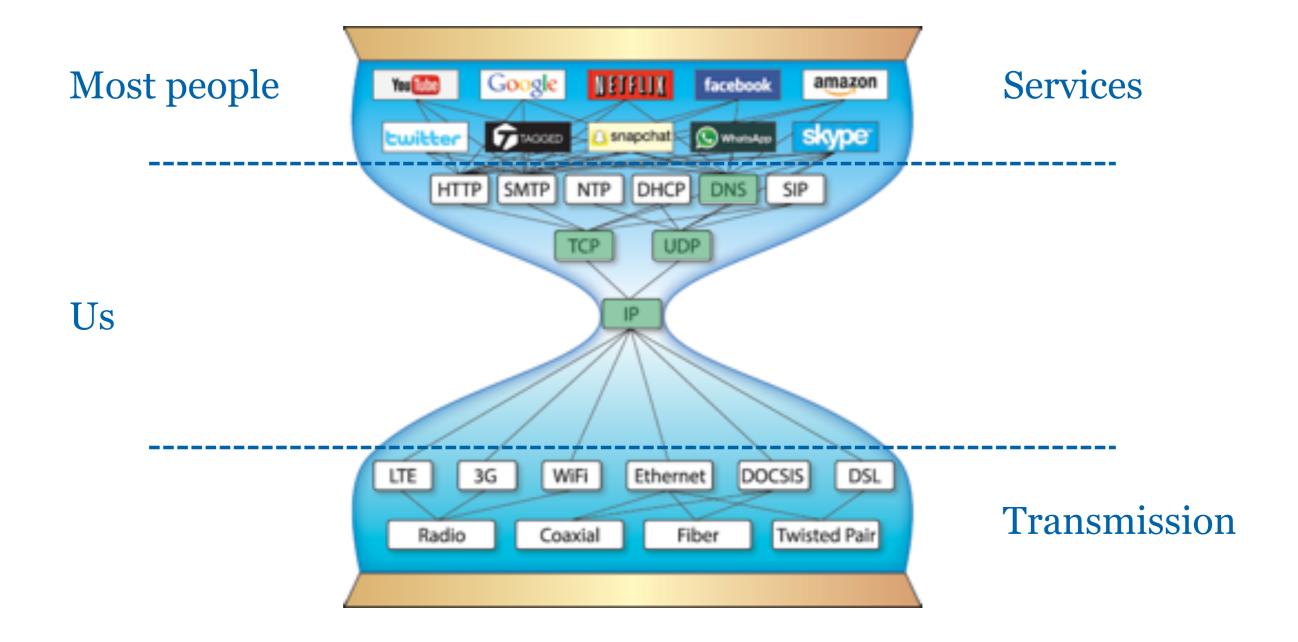
SEEDING KARING Giovane Moura that's following



SUDOV Labor Marco Duvids Benediction of the second

- Technical experts, divers in seniority and nationality
- Help SIDN teams, write open-source software, analyze large amounts of data, conduct experiments, write articles, collaborate with universities
- M.Sc students help us advance specific areas



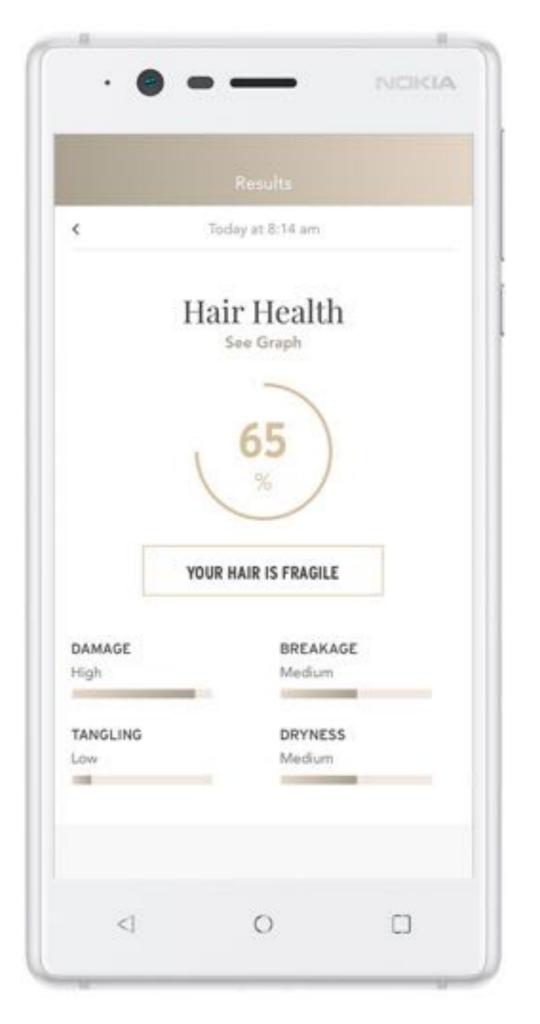
















Como Huggies TweetPee funciona

Design ergonómico

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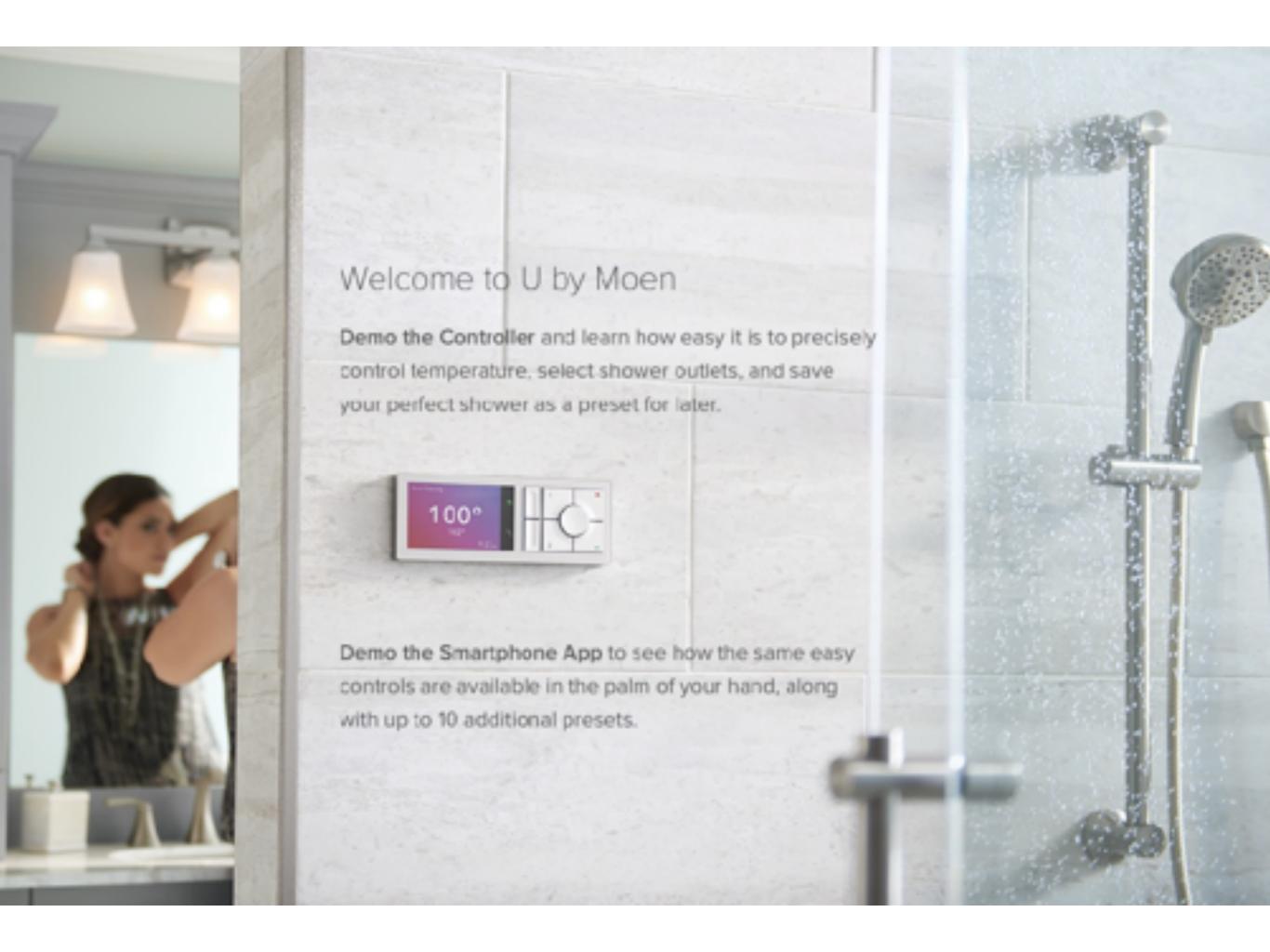
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SMALT with voice

Connect SMALT with Amazon Echo and simply say "Alexa, dispense half a teaspoon of salt".



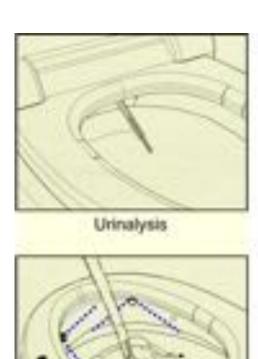


Bring the flavor

SMALT dispenses salt with a shake/pinch of your smartphone screen or simply turning the dial manually.







Uroflowmetry

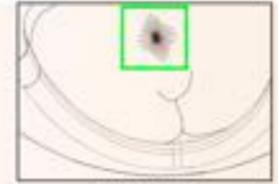


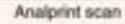
Bristol stool form scale

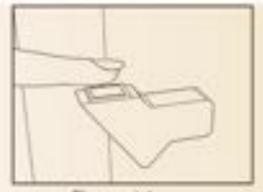


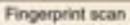
Seating time defecation time













Cloud-based health portal



The internet of insecure things: Thousands of internet-connected devices are a security disaster in the making



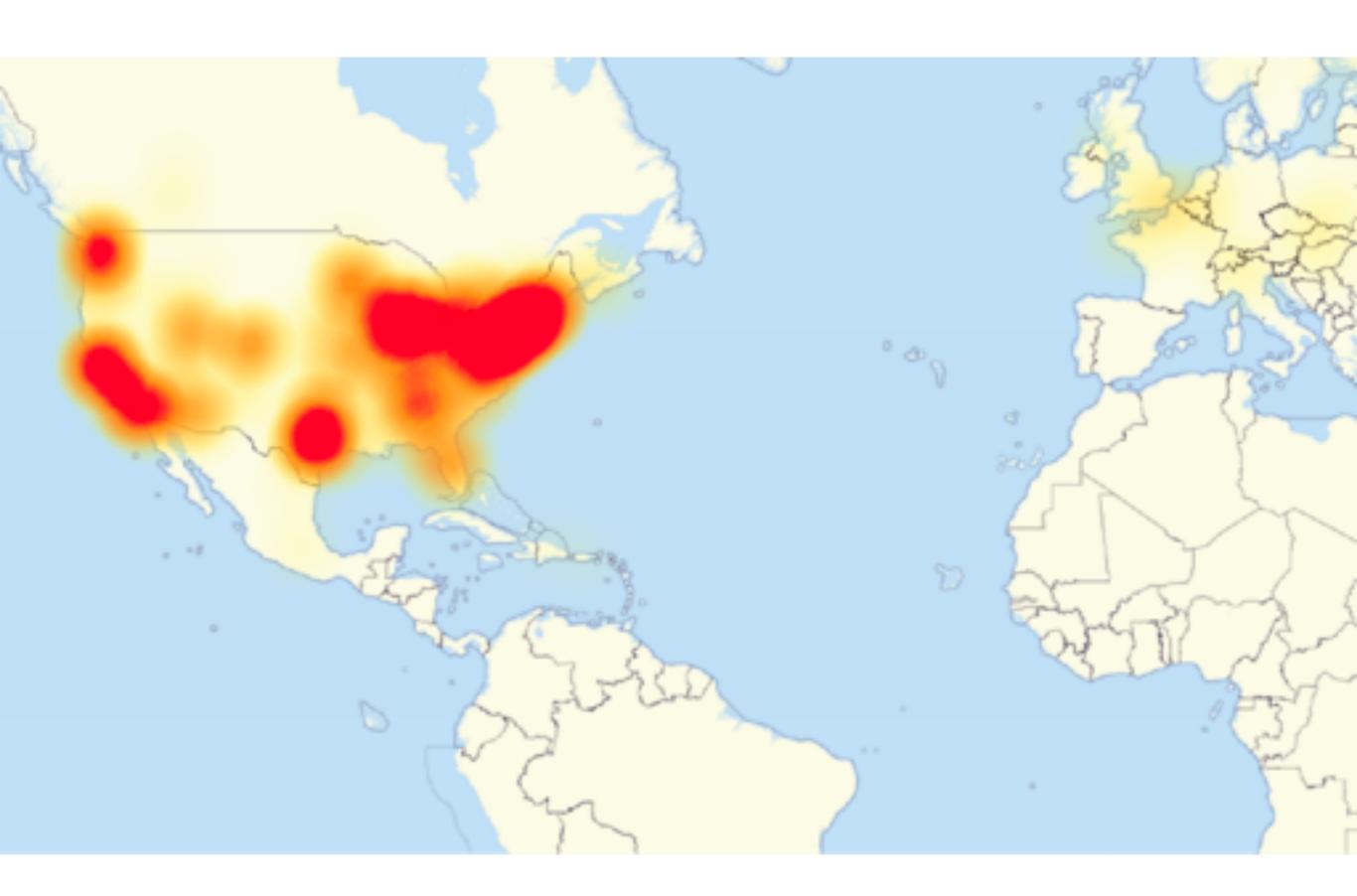




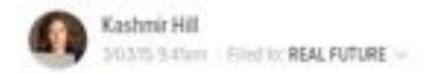


Mirai vs Obyn

1.2 Tbps From 'only' 100.000 devices



This guy's light bulb performed a DoS attack on his entire smart house







RISK ASSESSMENT -

BrickerBot, the permanent denialof-service botnet, is back with a vengeance

New botnet squadrons wage fiercer, more intense attacks on unsecured IoT devices.

DAN GOODIN - 4/24/2017, 10:43 PM









spied on babies and...



Eerie music coming from wireless baby cam; is it a

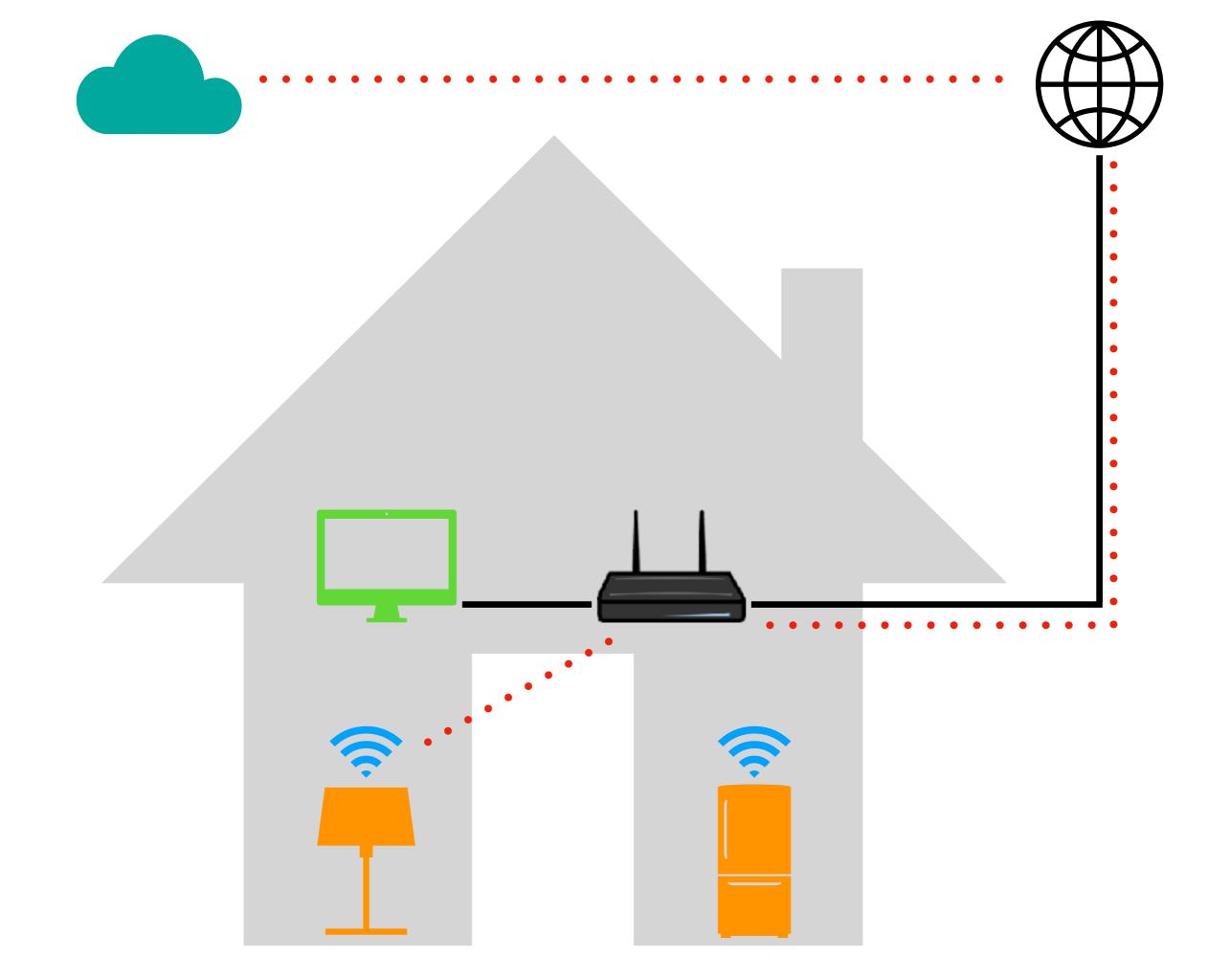


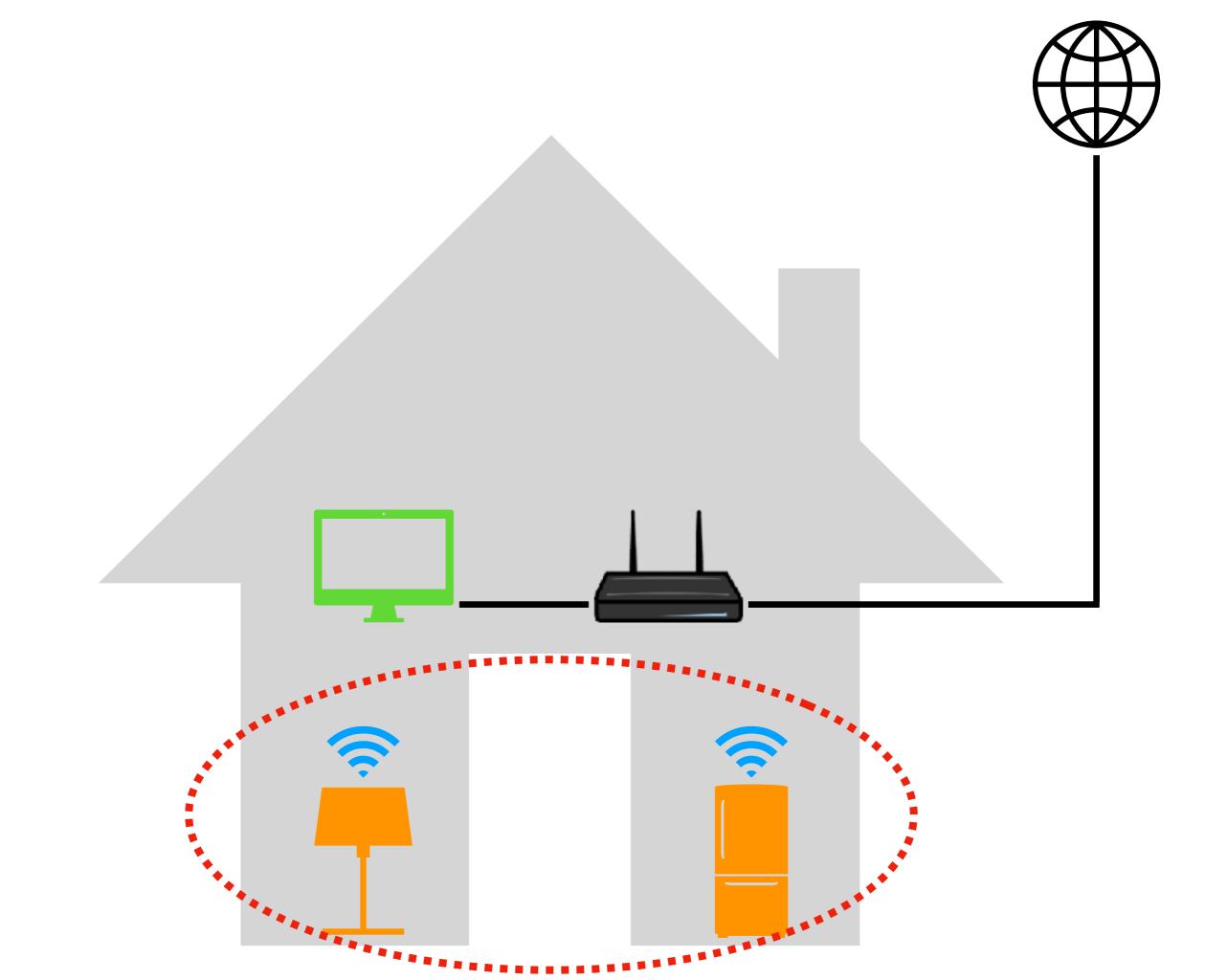


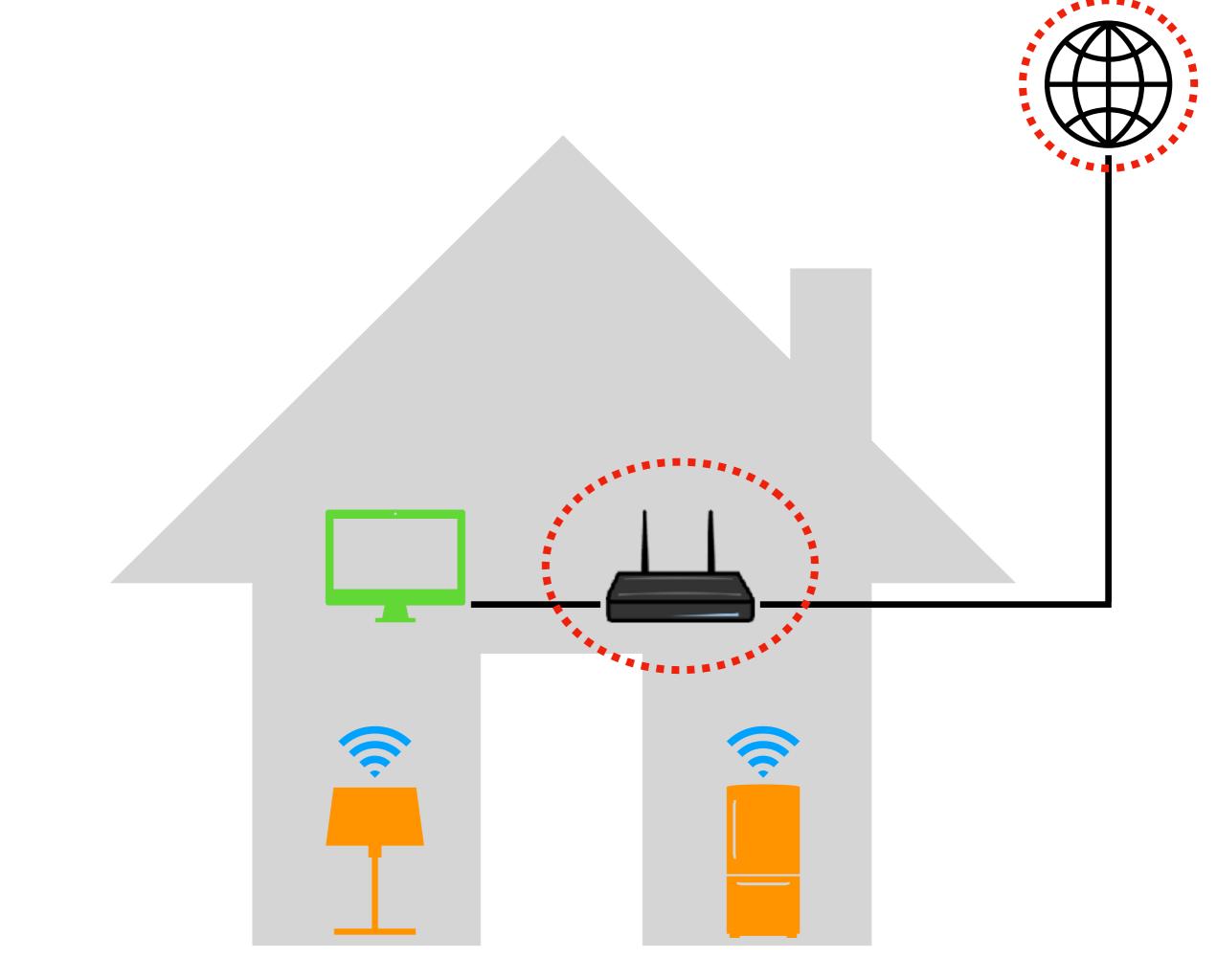


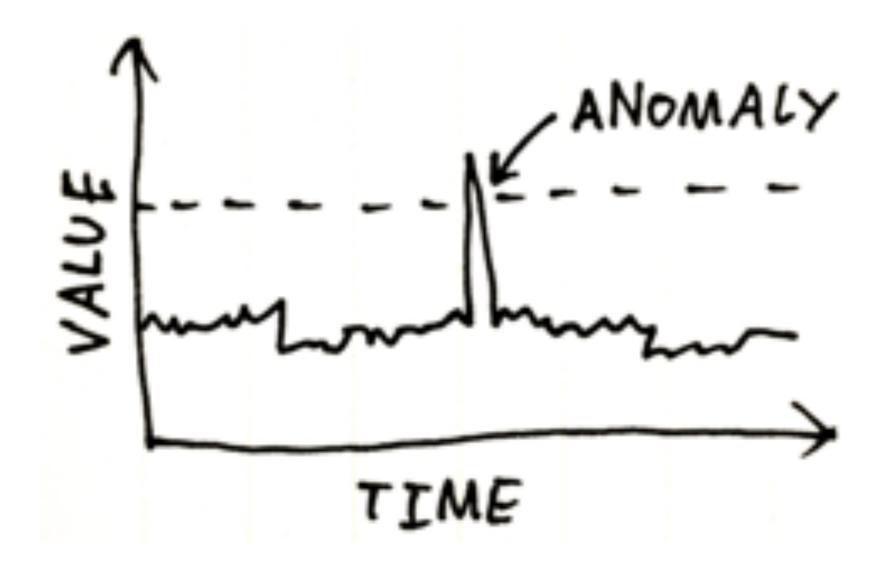












[Docs] [txt pdf] [draft-ietf-opsa...] [Tracker] [Diff1] [Diff2] [Errata]

PROPOSED STANDARD

Errata Exist

Internet Engineering Task Force (IETF)

Request for Comments: 8520

Category: Standards Track

ISSN: 2070-1721

E. Lear Cisco Systems R. Droms

Google

D. Romascanu March 2019

Manufacturer Usage Description Specification

Abstract

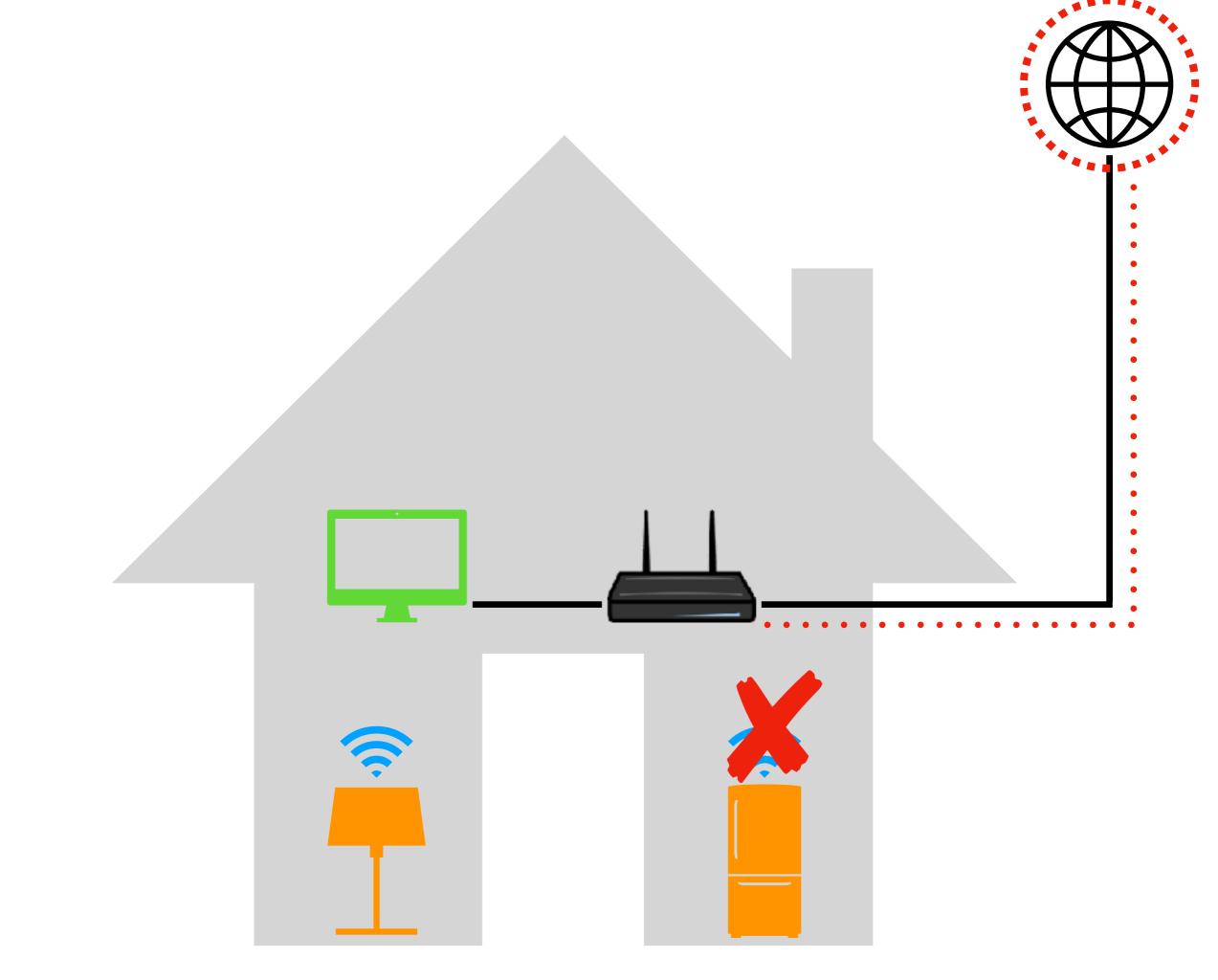
This memo specifies a component-based architecture for Manufacturer Usage Descriptions (MUDs). The goal of MUD is to provide a means for end devices to signal to the network what sort of access and network functionality they require to properly function. The initial focus is on access control. Later work can delve into other aspects.

This memo specifies two YANG modules, IPv4 and IPv6 DHCP options, a Link Layer Discovery Protocol (LLDP) TLV, a URL, an X.509 certificate extension, and a means to sign and verify the descriptions.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the Internet Engineering Steering Group (IESG). Further information on Internet Standards is available in Section 2 of RFC 7841.

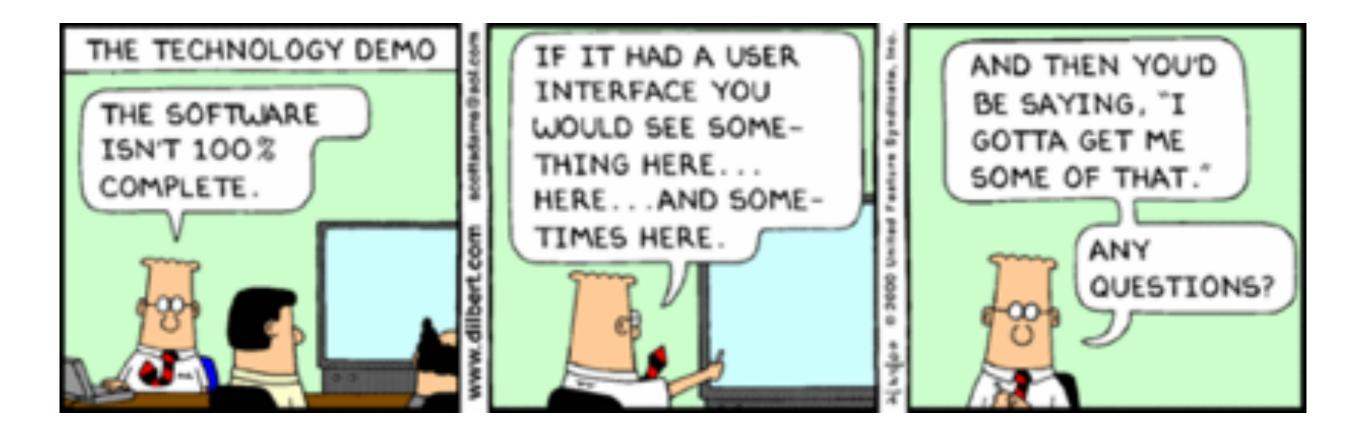




CAUTION

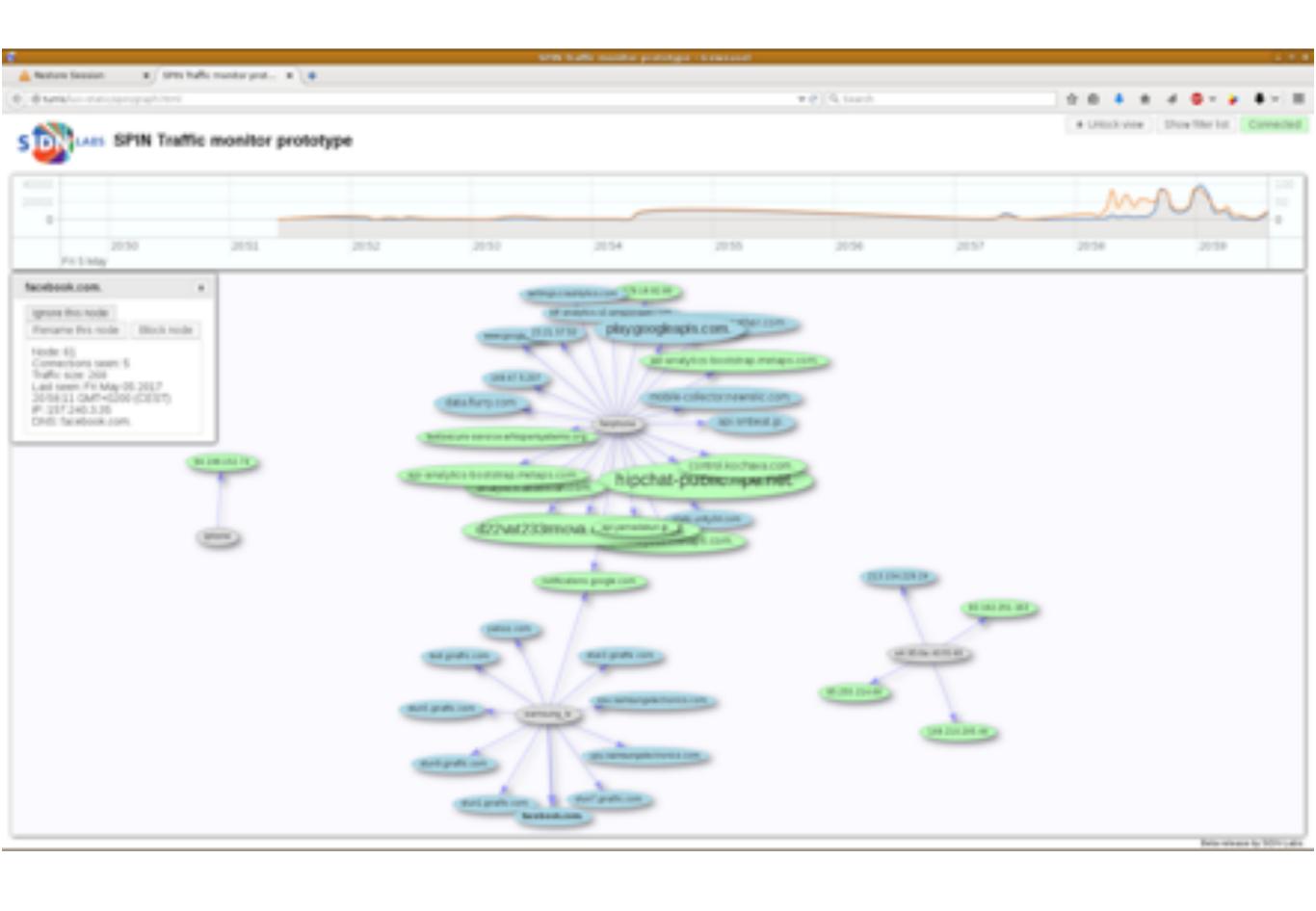
KEEP OUT QUARANTINE

Demo



Security and Privacy for In-home Networks (SPIN)









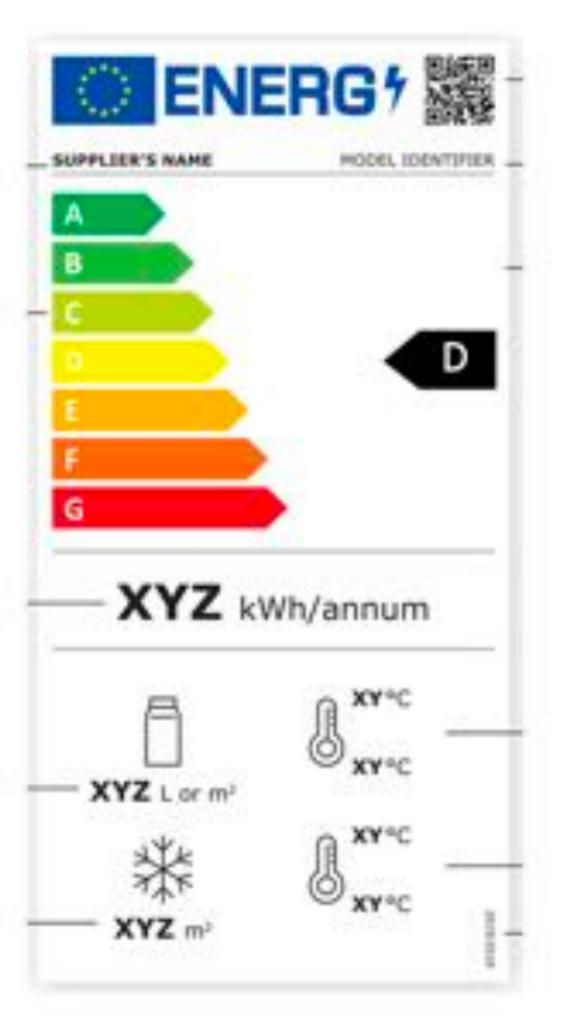


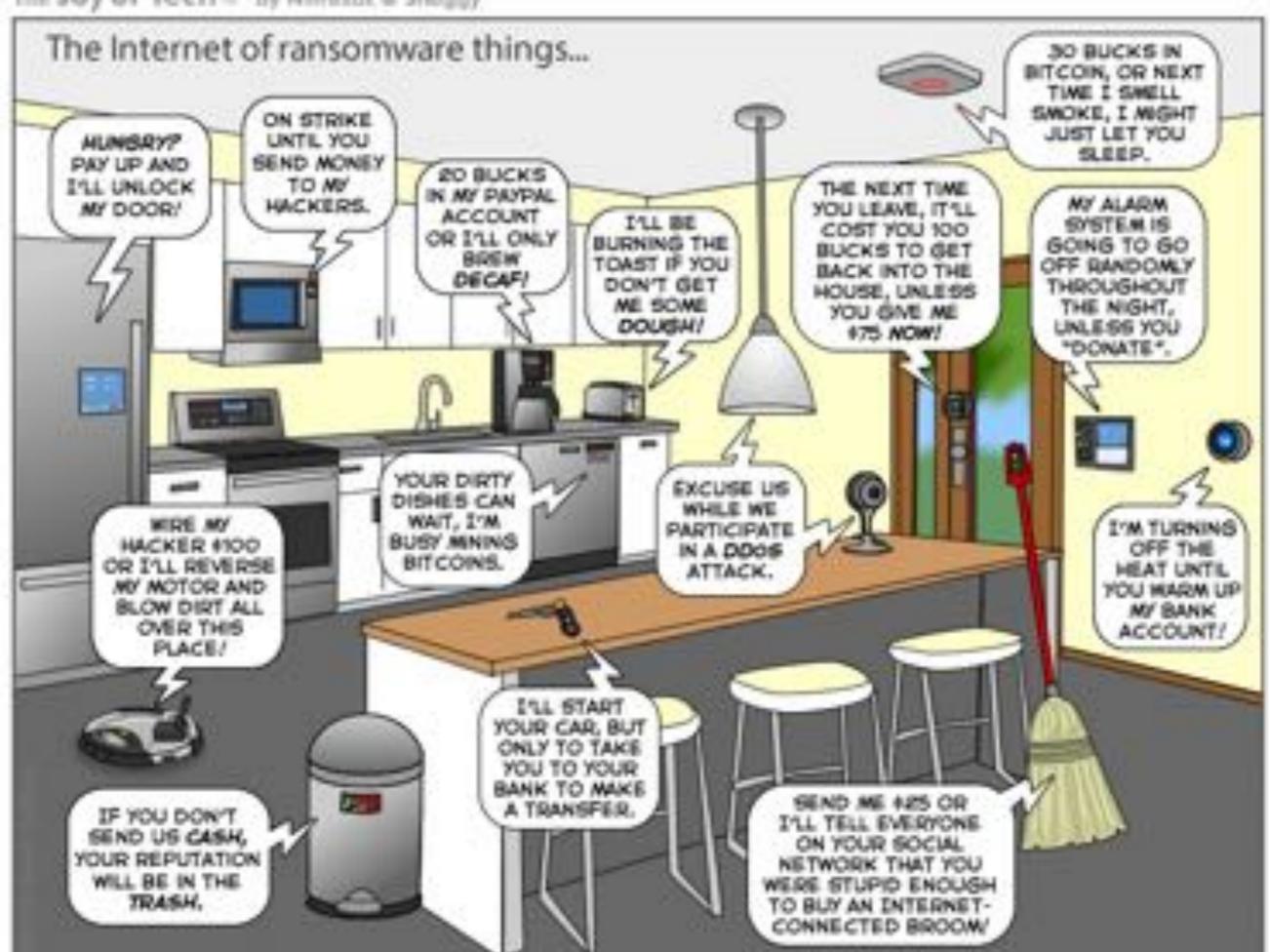












Q&A

https://spin.sidnlabs.nl https://github.com/sidn/spin

Elmer Lastdrager

Research Engineer elmer.lastdrager@sidn.nl @elmerlastdrager

