INTERNET OF TARGETS

Leif Nixon





Sarcasm

CAPI ELECTRONICS STORE SCHIPHOL AIRPORT



a pair vibrator



with bluetooth



wtf?





WARNING

DO NOT INSERT INTERNET INTO BODY ORIFICE

theguardian

football opinion culture business

lifestyle fashion environment

home > tech

Data and computer security

Someone made a smart vibrator, so of course it got hacked

The We-Vibe 4 Plus is a vibrator with a computer inside it - but hackers say it also phones home, telling its makers when it's being used



Two hackers revealed that the way the vibrator speaks with its controlling app isn't really secure at all. Photograph: WeVibe

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Data protection

Vibrator maker ordered to pay out C\$4m for tracking users' sexual activity

Canadian manufacturer We-Vibe collected data about temperature and vibration intensity, revealing intimate information without customers' knowledge



The We-Vibe is marketed as a way to 'allow couples to keep their flame ignited - together or apart'. Photograph: Emily Berl for the Guardian



Internet of Shit

@internetofshit

Obviously the best thing to do is put a chip in it. Tips: internetofshit@gmail.com / Key: 6956F195





1,173

Tweets

FOLLOWING 39

76.5K

1,297

₽

Following

Pinned Tweet

Internet of Shit @internetofshit · 3 Jul 2015

Tweets & replies

The Internet of Shitty Things is here. Have all of your best home appliances ruined by putting the internet in them!

Photos & videos







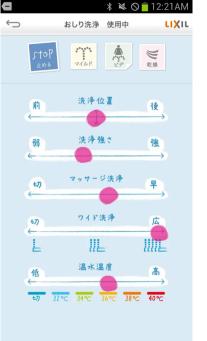














Hackers take control of a TOILET using bog-standard computer skills

Futuristic high-tech toilets vulnerable to cyber-assaults which could have very messy consequences





THE SMART OVEN THAT MAKES HOME COOKING EASY



As long as the power remains on, your Tovala will finish cooking the meal. The Tovala will need to reconnect to the Internet to scan and cook your next meal.

→ What happens if my wifi goes down while my Tovala is cooking?

As long as the power remains on, your Tovala will finish cooking the meal. The Tovala will need to reconnect to the Internet to scan and cook your next meal.

no wifi – no food

do you have devices that need your wifi to be working?

■ security cameras
■ smart tv/dvr

■ thermostats
■ security alarm

■ smart appliances
■ smart lighting

smoke alarms random crap iot

happily, there is an iot solution for that!

ResetPlug

A smart plug to monitor your WiFi router/modem and reset power if WiFi fails.



Buy Now \$59.99

ResetPlug

A smart plug to monitor your WiFi router/modem and reset power if WiFi fails.





Buy Now \$59.99





philips hue uses zigbee light link

(which is totally different from zigbee home automation)

The ZLL pre-installed link key is a secret shared by all certified ZLL devices.

It will be distributed only to certified manufacturers and is bound with a safekeeping contract.

zigbee light link secret master key

9F 55 95 F1 02 57 C8 A4 69 CB F4 2B C9 3F EE 31



Flux

Flux WiFi Smart LED Light Bulb - Works with Alexa - Smartphone Controlled Multicolored Color Changing Lights - Dimmable Night Light

Price: \$34.84

send udp packet to port 48899:

HF-A11ASSISTHREAD +ok

AT+WSKEY

returns:
wifi access key

but you already know the

wifi access key, right?

but you already know the wifi access key, right?

loss of wifi > 10 mins? start AP!

fun feature:

if remote control via Internet is enabled you can do this from remote

single auth factor: the bulb's mac address – easily bruteforced

for some reason, the bulb provides an http proxy

allowing connections to arbitrary hosts on internal network

Smart Tooth Brush

The Beam Brush is a connected toothbrush that engages users with their daily hygiene routine.





Security researcher finds smart Oral-B toothbrush leaks sensitive data

Posted 30 November 2015 16:02 CEST by Jan Willem Aldershoff

Security researcher Craig Wright has found that a smart toothbrush from Oral-B can leak sensitive information. The Oral B Triumph Toothbrush with SmartGuide ProfessionalCare 9900 i wirelessly connects to a smartphone app where it collects data on how often the user brushes his teeth, for how long and which movements are made.



Bluetooth-Enabled Insoles

Shares navigation, directions and orientation.





Olle Angst: Why is the world full of idiots?

Idiot: What do you mean?

why, oh why?

START-UPS

lack of time lack of funds abandonware

MASS MARKET

price pressure no consumer interest shiny > secure

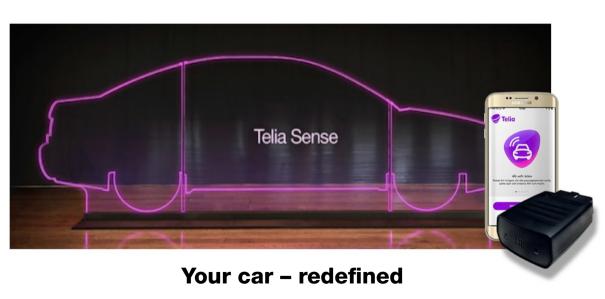
TRADITIONAL VENDORS

no competence









MARKETING MATERIAL:

Telia Sense connects to your car's onboard computer, giving you access to important data and enabling you to control certain functions remotely.





SHARE

f SHARE

TWEET

COMMENT

EMAIL

ANDY GREENBERG SECURITY 08.11.15 07:00 AM

HACKERS CUT A CORVETTE'S BRAKES VIA A COMMON CAR GADGET



THE NIXON PRINCIPLE:

Things that can kill you shouldn't be on the Internet.





Explore the Internet of Things

Use Shodan to discover which of your devices are connected to the Internet, where they are located and who is using them.



See the Big Picture

Websites are just one part of the Internet. There are power plants, Smart TVs, refrigerators and much more that can be found with Shodan!



Monitor Network Security

Keep track of all the computers on your network that are directly accessible from the Internet. Shodan lets you understand your digital footprint.



Get a Competitive Advantage

Who is using your product? Where are they located? Use Shodan to perform empirical market intelligence.





46.245.154.180

467190000244025.powerpro.mobiflex.se

Country	Sweden
Organization	Multicom Security AB
ISP	Multicom Security AB
Last Update	2017-08-11T00:08:37.471705
Hostnames	467190000244025.powerpro.mobiflex.se
ASN	AS43591

■ Services



Boa HTTPd Version: 0.94.13

HTTP/1.0 401 Unauthorized

Date: Thu, 10 Aug 2017 23:54:34 GMT

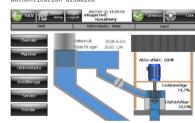
Server: Boa/0.94.13 Connection: close

WWW-Authenticate: Basic realm="DCS-2130" Content-Type: text/html; charset=ISO-8859-1

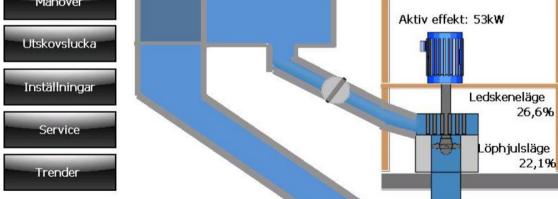


VNC

RFB 003.007 authentication disabled







⊗ 80.162.121.229 80-162-121-229-dynamic.dk.customer.tdc.net

City	Randers
Country	Denmark
Organization	TDC Danmark
ISP	TDC Danmark
Last Update	2017-09-22T13:40:56.865586
Hostnames	80-162-121-229-dynamic.dk.customer.tdc.net
ASN	AS1292

Ports



≡ Services



oftpd

228 Service ready for new user. 538 Approximus access not allowed. 538 Not logged in. 500 Syntax error, command unrecognized.



HTTP/1 1 200 0k Server: httpd

Expires: 8

Date: Fr1, 22 Sep 2017 05:40:55 GMT Cache-Control: po-cache



RFB 003.007 authentication disabled



























OF COURSE IT'S NOT ON THE BLOODY INTERNET, ARE YOU **CRAZY?**

it's perfectly possible to build good iot systems, it just takes good engineering.





Smart Lighting, Smart-Home

IKEA TRÅDFRI: A smart light in the darkness of IoT-Security



Can cheap hardware from the Swedish furniture giant be secure?





Smart Lighting, Smart-Home

IKEA TRÅDFRI: A smart light in the darkness of IoT-Security

April.24, 2017 Maik Morgenstern

From the security point of view IKEA built a solid eco system with no real security issues at the technical side.



something needs to be done

let's do something

for critical systems and services:

REGULATION

Bekendtgørelse om udpegning af drikkevandsressourcer (bkg. nr. 246 af 15/03/2017)

Bekendtgørelse om vandforsyningsplanlægning (bkg. nr. 831 af 27/06/2016)

Bekendtgørelse om vandindvinding og vandforsyning

(bkg. nr. 832 af 27/06/2016)

Bekendtgørelse om indsatsplaner (bkg. nr. 912 af

27/06/2016)

Bekendtgørelse om kvalitetskrav til miljømålinger (bkg. nr. 914 af 27/06/2016)

Bekendtgørelse om uddannelse af personer, der udfører boringer på land (bkg. nr. 915 af 27/06/2016)

Bekendtgørelse om delegation af miljøministerens beføjelser i ...forskellige ...love til Miljøstyrelsen (bkg. nr. 597 af 02/06/2016) Bekendtgørelse om vandkvalitet og tilsyn med vandforsyningsanlæg (bkg. nr. 802 af 01/06/2016)

Bekendtgørelse om passagebidrag (bkg. nr. 160 af 26/02/2016)

Bekendtgørelse om indhentelse af udtalelse om miljøskade m.v. (bkg. nr. 1460 af 07/12/2015)

Bekendtgørelse om udførelse og sløjfning af boringer og brønde på land (bkg. nr. 1260 af 28/10/2013) Bekendtgørelse om kvalitetssikring på almene vandforsyningsanlæg (bkg. nr. 132 af 08/02/2013)

Bekendtgørelse om miljøgodkendelse og samtidig sagsbehandling af ferskvandsdambrug (bkg. nr. 130 af 08/02/2012

Bekendtgørelse om individuel afregning efter målt vandforbrug (bkg. nr. 837 af 27/11/1998)

HOW ABOUT

Bekendtgørelse om NOT TO PUT YOUR WATERWORKS ON THE INTERNET

for consumer devices:

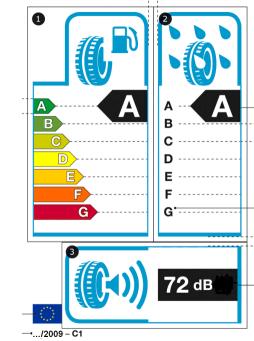
REGULATION (maybe?)

tires?

wtf do i know about tires?

tires?

wtf do i know about tires?







MODERN COUNTERPART. BORING.



MODERN COUNTERPART.
BORING.

 ϵ

nothing of this is easy

nothing of this is easy but if we all work together

nothing of this is easy

we can make iot boring again

but if we all work together

THANK YOU

