Netzwerke, Security, Hard- & Software | Vortrag | Einstieg

Was macht "gute" IoT Produkte aus?

Thomas Amberg

Beginn um 17:00 Uhr im Raum Erkerzimmer (1. OG), Dauer: 30min

Der IoT Hype hat den Höhepunkt längst überschritten, aktuelle News sind vor allem negativ: Geräte spionieren, Firmen verlieren Daten, Produkte passen nicht zusammen. Mit betteriot.org, initiiert von Alexandra Deschamps Sonsino und Usman Haque von IoT London, versucht eine internationale Gruppe zu definieren, was "gute", vertrauenswürdige Internet-verbundene Produkte ausmacht. Thomas Amberg von IoT Zürich gibt als Core Contributor einen Einblick in diese bottom-up Community-Initiative.

Better IoT
#betteriot

Assess your product | How we got started? | Blog | Contact us

Making good design actionable.

Better IoT (formerly known as The Open Internet of Things Certification Mark) is a community-led effort to help startups and SMEs design better connected products.

Secure https://www.meetup.com/iotlondon/

Meetup

Create a Meetup

Internet of Things London

Location
London, United Kingdom

Members
12,412

Organizers
Alexandra Deschamps-Sonsino

You're a member

Next Meetup

See all

24
APR

Tuesday, April 24, 2018, 7:00 PM

London Internet of Things Meetup 77: Spring

Attend

IoT Zurich | Zürich, Switzerland

Secure https://www.meetup.com/IoT-Zurich/

Meetup

Create a Meetup

IoT Zurich

Location
Zürich, Switzerland

Members
1,896

Organizers
Thomas Amberg and 1 other

Next Meetup

See all

19
MAR

Monday, March 19, 2018, 6:30 PM

Open #iotmark for connected products

Organizer tools

Alexandra D-S on Twitter: "For ...

Twitter, Inc. (US) | https://twitter.com/iotwatch/status/927481911467040768

Home

Tweet

Alexandra D-S
@iotwatch

Following

For those who missed it, I wrote some thoughts on the current state of @iot__mark a certification mark for #iot

What does it take to make better connected products?

This time last year, Usman Haque and I were reminded that it had been almost five years since our 'Open Internet of Things Definition'...

Who is

Alexandra

@iotwatch · Follow

#iot consultant @

@designswarm @

buff.ly/2n2gCJ2 *A simple looking #iot label designed after nutritional labels. (A solid approach, I believe, but the devil is in the details.)

IoT Facts

Overall Thing Rating	☆☆☆☆☆
Expiration Date	MM/DD/YYYY
	Rating Breakdown
Security	☆☆☆☆☆
Privacy	☆☆☆☆☆
Connectivity	☆☆☆☆☆
Interoperability	☆☆☆☆☆
Standards	☆☆☆☆☆

How we got started? · Open

Themes

Secure https://latmark.wordpress.com/history/

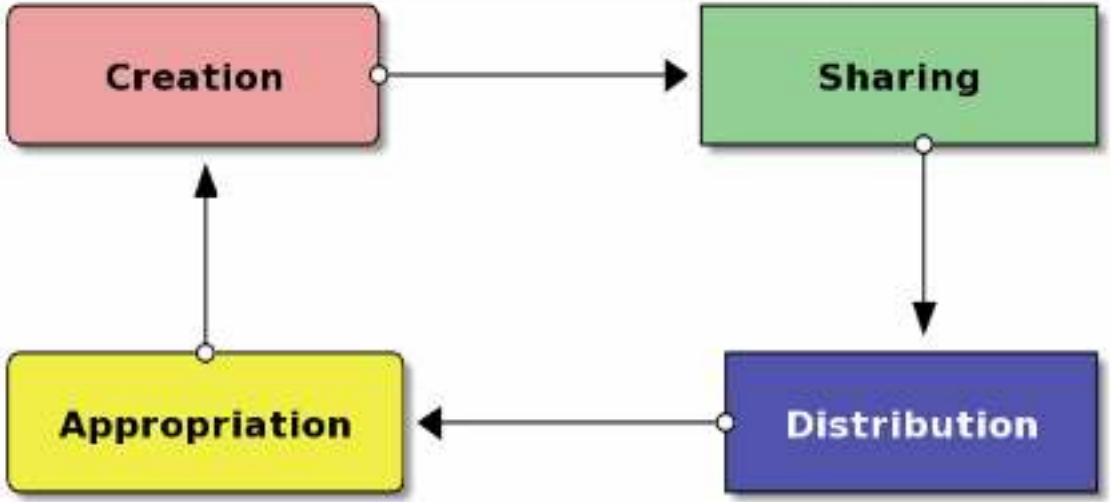
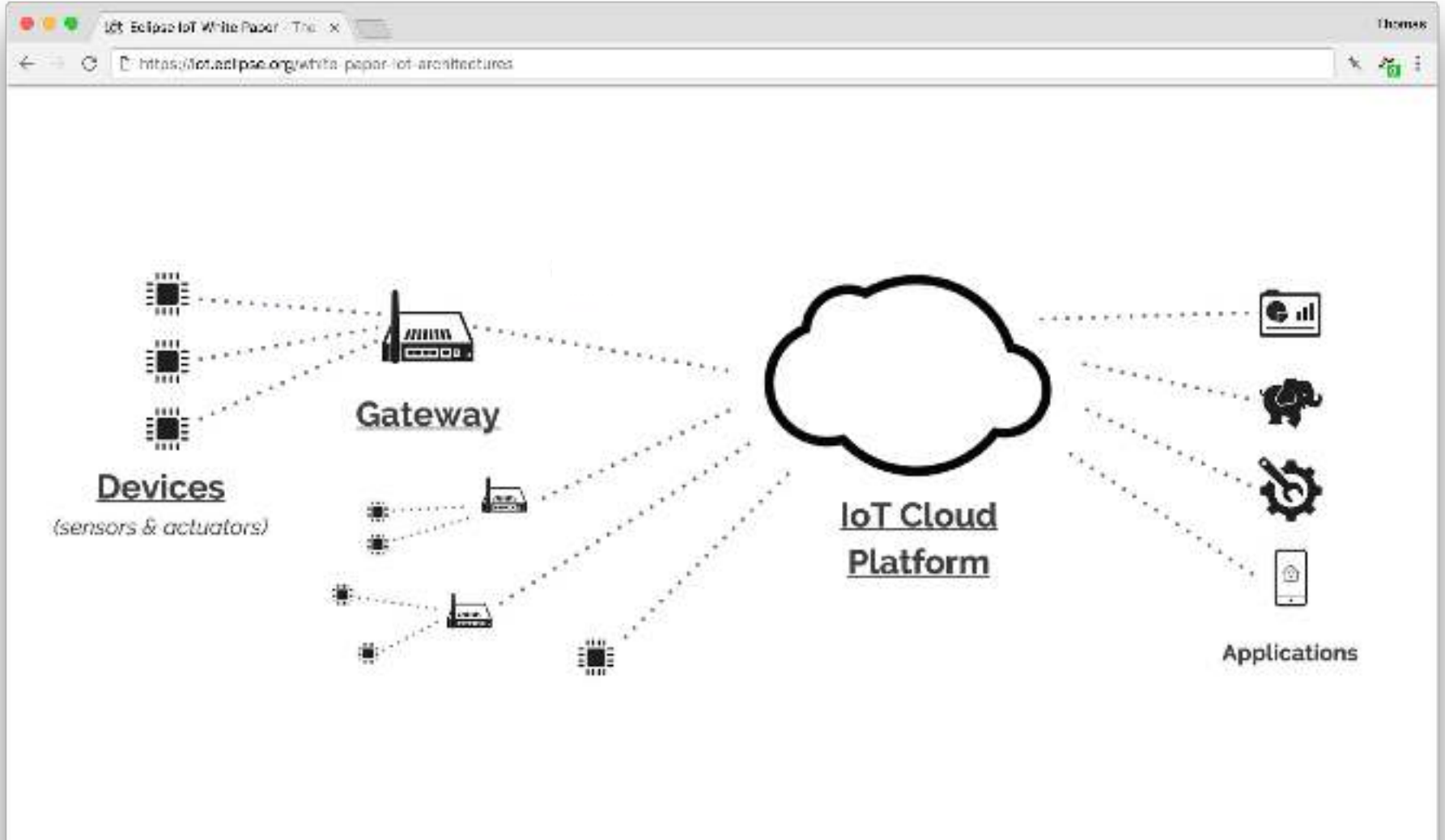


Figure 5: Semiotic square of virtuose creation

The first striking difference I observed here is that the direction is inverted. The circularity suggests that any moment represented can be a starting point for agencies that focus on the process rather than a final result. The ideal starting point is Sharing which, in the semiotic square formulation is the node furthest from Appropriation.


Gateway
Devices
(sensors & actuators)
IoT Cloud
Platform
Applications

Connected product

The entirety of one or more devices, gateways, backend, apps and the services they represent.

E.g.
Philips Hue, "smart lighting"
Kindle, "never be without a book"
Good Night Lamp, "share your presence"
Alexa, "control your home, using just your voice."
Safecast, "crowd-sourced radiation ground truth"

Device / ~~Thing~~ / ~~Product~~

A physical device with connectivity, an embedded computer, sensors and actuators.

(Some devices are "product + connectivity", others are rather "service avatars". The term *product* becomes ambiguous given the above definition, so the term *device* is preferred.)

Principles

Privacy
Interoperability
Openness
Data Governance
Permissions & Ownership
Transparency
Security
Lifecycle

Search or jump to... Pull requests Issues Marketplace Explore

betteriot / betteriot-principles

Unwatch 6 Unstar 13 Fork 6

Code Issues 14 Pull requests 2 Projects 0 Wiki Insights Settings

315 lines (176 sloc) 17 KB Raw Blame History

Better IoT Principles

Better IoT (fka Open IoT Certification Mark) Principles – June 13th 2018

Introduction

This is the latest version of a working document to develop a certification mark for connected products by IoT community members worldwide. This is a work in progress and you may comment freely, join the conversation on Slack, sign up to our newsletter or give us feedback in writing (alex@iot.london) or on our monthly open calls.

This is a set of principles that we think a vendor — a connected product manufacturer, team or founder — would use to make a

iotmark_poster_principles

https://github.com/openiotmark/iotmark-knowcards/raw/master/iotmark_poster_principles.pdf

Better IoT Principles

March 9th 2018

Must have

Privacy	Interoperability	Openness	Data governance	Permissons	Transparency	Security	Lifecycle
The connected product supplied by the organisation is GDPR compliant.				The organisation gives users the ability to transfer ownership of the device.	The organisation makes it explicit to the user what the implications of substantially changing usage of the device are.	The organisation enforces a strong user identity policy.	The organisation lets a user do a factory reset on the device.
The organisation doesn't sell customer data without consent.				When ownership of a device is transferred, the new user doesn't have access to the previous user's data.	The organisation makes explicit the expected duration of the terms of service.	The organisation has clear admin user management policies.	The organisation is clear about the expected lifetime of the service provided by the device and backend.
Customer data isn't used for profiling, marketing or advertising without transparent disclosure.					The organisation asks the explicit permission of the customer when it wants to change the length of the terms of service.	The organisation provides minimum cryptographic security on its backend & secure configuration.	The organisation is clear about the levels of customer support that are provided during the lifetime of the product.
					The organisation informs the user about firmware upgrades.	The device firmware is compliant with industry security standards.	

otmark_poster_principles

https://github.com/openlotmark/otmark-knowcards/raw/master/lotmark_poster_principles.pdf

Nice to have

The organisation grants third parties the same functional scope on the backend as its own clients.

The organisation allows third parties to communicate directly with its devices without going through the backend.

The organisation allows third parties to connect clients to its backend.

The organisation doesn't degrade or change the current core functionality of the device over the product lifetime.

The organisation makes it possible for customers to turn off the connection to the backend, this might mean that functionality of the device is reduced.

The organisation lets users export their data.

The organisation implements reliable and appropriate backend patching procedures which are evidenced.

The device uses strong cryptographic schemes.

The organisation supplies a list of the first level of suppliers involved in their supply chain.

The organisation supplies spare parts on request during the lifecycle of the product.

The organisation supplies a list of the geographic regions involved in the supply chain.

The organisation gives clear documentation for any parts that a customer can repair using commonly accessible tools and skills.

Best scenario

The organisation allows third parties to connect devices to its backend.

The organisation publishes the device source code under an open source license.

The organisation's backend implements additional secure setup options.

Alexandra D-S on Twitter: "Te

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Alexandra D-S
@iotwatch

Following

Testing 1, 2, 3. #iotmark #iot #tools

Who is

Alexandra

@iotwatch · Follo

#iot consultant @

@designswarm @

Albrecht Kurze on Twitter: "I ju

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Albrecht Kurze
@AlbrechtKurze

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I just made my @iot__mark card set- having them ready for an #IoT workshop at @Miteinander_TUC. Thanks to @iotwatch of @KnowCards for the template. Download yours: github.com/openiotmark/io … I slightly modified my set (colored backside). #iotmark #IoTcards #IoTtools #IoTworkshop

Albrecht Ku
@AlbrechtKurze
PostDoc & IoT Re
and @miteinance
Chemnitz, Sa
nebeneinande
Joined Septem

Privacy

Build GDPR compliant connected products.

Chris Adams on Twitter: "Are

Twitter, Inc. [US] | https://twitter.com/mrchrisadams/status/981818783301128961

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Chris Adams
@mrchrisadams

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Are you in Berlin on April 21st? If you're thinking about GDPR (and if you store *any* data that can identify people, you should be), come to #OMGDPR, a free community-run unconference about making it work in your organisation. bit.ly/omgdpr-tix
RT for reach folks!

OMGDPR

Chris Adan
@mrchrisadams

Berlin, occasio

Steven Frank on Twitter: "Thi

Twitter, Inc. [US] | https://twitter.com/stevenf/status/981215638413984384

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Steven Frank
@stevenf

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There's a crew of us at Panic evaluating the EU GDPR regulations and what we might need to do to comply and can I just say how much easier life is if you simply have humane business ethics in the first place.

7:03 PM - 3 Apr 2018

189 Retweets **562** Likes

7 189 562

Tweet your reply

Jonas @anomalisk · 19h

Replying to @stevenf

I know right. GDPR is like an exam in ethics. If you didn't do your homework or

Yaler.net - Privacy

Secure https://yaler.net/privacy

Yaler.net

Status Docs & Help Pricing & Sign up **Log in**

Privacy

v1.0, 2018-01-03. For updates, follow @yaler.

In general

We do not use any third party tracking services.

We try our best to minimize the data we collect.

We keep access logs to our servers for 10 days.

Analytics

Our site *www.yaler.net* logs the time, IP address, user agent, path and status for 10 days.

The *status.yaler.net* subdomain is served by a third party with their own privacy policy.

The *.*.*yaler.io* subdomains accessible via our relays are served by third parties, too.

Interoperability

Document the API of your device and backend.

Philips hue API | Philips hue A

Secure https://www.developers.meethue.com/philips-hue-api

hue DEVELOPER PROGRAM

Search

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- Home
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- Application Design Guidance
- Philips hue API
  - Terms of use
- Find Answers
- Philips hue developers & apps
- Job Vacancies
- Forum

Philips hue API

Full API Documentation

The full API documentation is only available to registered users. Please login or register to view the full API documentation and become a member of our exciting hue community. It only takes a few seconds.

See what you can do

Your feedback following our hue launch was clear. You want to use light as you want it. Here we provide you some material to do so. The hue bridge has a powerful RESTful interface, which behaves like a simple web service. Use it as your tool. We hope this will help you to truly use light as you want it, by making new apps, websites and digital installations; integrating hue into something else or just playing around.

Getting started

We've started off by releasing the core parts of our bridge interface along with some easy to follow examples for how to use them. This should be enough to get you up and running controlling lights from your applications.

- Learn how hue works

Dana M. Lewis | #OpenAPS

Twitter, Inc. [US] | https://twitter.com/danamlewis/status/921413265065832448

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Dana M. Lewis | #OpenAPS

@danamlewis

Following

Also, here's what a modern #OpenAPS rig looks like :) cc @Berci

Dana M. Le
#OpenAPS
@danamlewis

Built artificial pan

Dana M. Lewis | #OpenAPS

Twitter, Inc. [US] | https://twitter.com/danamlewis/status/881125980355464704

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Dana M. Lewis | #OpenAPS

@danamlewis

Following

Been looping (aka, using DIY closed loop artificial pancreas, aka #OpenAPS) for multiple years. Still so incredibly thankful this tech makes diabetes not a blip on the radar with my (crazy) travel schedule. Much 💜 to the community that helps make this possible. #WeAreNotWaiting

OpenOmni

www.openomni.org

OpenOmni

BOUNTY SOURCING THE CREATION OF AN OMNIPOD PLUGIN FOR THE OPENAPS PROJECT

Understanding that the Open Source world is based on scratching your own itch, here's some scratch. We have placed a bounty on a working, accepted plug-in for the Insulet OmniPod into the OpenAPS Project.

To be complete, this means that the project would use COTS hardware and Open Source software to communicate with the OmniPOD device placed on a T1 patient, controlling temporary basal rates to control blood glucose levels. This work will be delivered open source and will be shared and reviewed by existing members of the OpenAPS community. If multiple people are part of the submittal, they can agree on a split, or on a charity to receive the funds.

JDRF Announces New Initiative to Pave Way for Open Protocol Automated Insulin Delivery Systems

—Initiative encourages manufacturers to give users greater control over insulin devices; JDRF to provide funding, support with regulatory, liability hurdles—

NEW YORK, October 18, 2017 —JDRF, the leading global organization funding type 1 diabetes (T1D) research, is announcing a new initiative that will support the development of open protocols for artificial pancreas (AP) technology.

For more than a decade, JDRF has played a leadership role in accelerating the development and commercialization of AP systems that automate insulin delivery, defining a roadmap for increasingly sophisticated systems that would, with each generation, improve outcomes and reduce burden for people with T1D. Now, the first commercial system, which has been shown to provide significant benefit to people with diabetes, is on the market, and other systems are in development.

FDA News Release

FDA authorizes first fully interoperable continuous glucose monitoring system, streamlines review pathway for similar devices

For Immediate Release March 27, 2018

Release

The U.S. Food and Drug Administration today permitted marketing of the Dexcom G6 integrated continuous glucose monitoring (iCGM) system for determining blood glucose (sugar) levels in children aged two and older and adults with diabetes. This is the first type of continuous glucose monitoring system permitted by the agency to be used as part of an integrated system with other compatible medical devices and electronic interfaces, which may include automated insulin dosing systems, insulin pumps, blood glucose meters or other electronic devices used for diabetes management. Today's authorization also classifies this new type of device in class II

Inquiries

Media

Tara Rabin
240-402-3157

Consumers

888-INFO-FDA

Related Information

- Diabetes Information
- Medical Devices
- CDRH Office of In Vitro Diagnostic Device Evaluation and Safety

Openness

Consider open sourcing your device hardware, software and backend.

The Things Network by Wienke ×

Secure https://www.kickstarter.com/projects/419277966/the-things-network

Explore Start a project

KICKSTARTER

Search Sign in

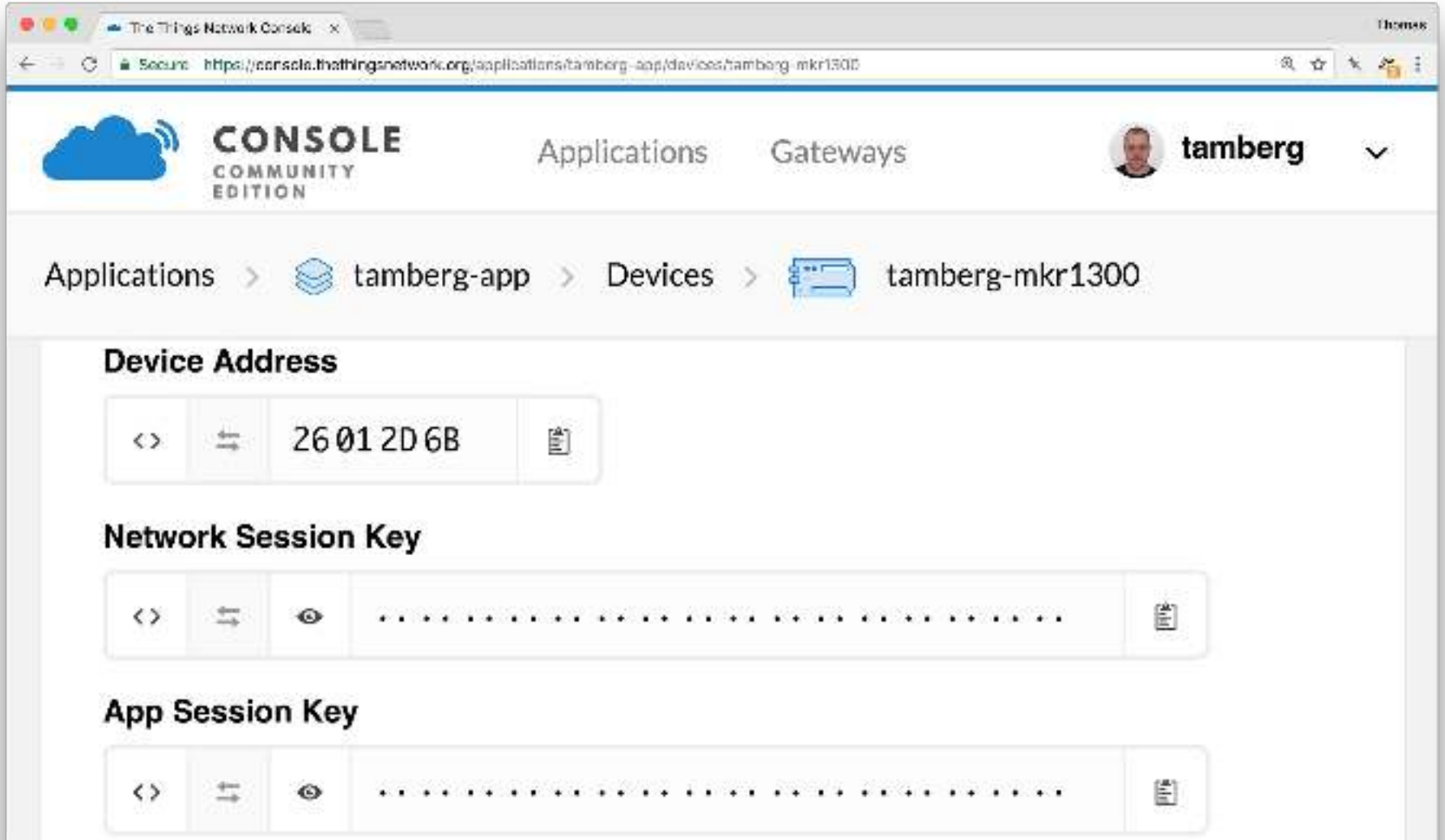
The Things Network

The Things Network is a global, crowdsourced, open, free and decentralized internet of things network.

Created by

Wienke Giezeman

934 backers pledged €295,331 to help bring this project to life.


The Things Network Console
Secure https://console.thethingsnetwork.org/applications/tamberg-app/devices/tamberg-mkr1300
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COMMUNITY EDITION
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Gateways
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Applications > tamberg-app > Devices > tamberg-mkr1300
Device Address
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Network Session Key
App Session Key

TheThingsNetwork/ttn: The Th...

GitHub, Inc. (US) https://github.com/TheThingsNetwork/ttn

This repository Search Pull requests Issues Marketplace Explore

TheThingsNetwork / ttn

Watch 69 Unstar 287 Fork 197

Code Issues 43 Pull requests 1 Projects 0 Wiki Insights

The Things Network Stack V2 https://www.thethingsnetwork.org

iot internet-of-things lorawan lora network-server golang open-source lora-server lorawan-server

3,177 commits 12 branches 23 releases 20 contributors MIT

Branch: develop New pull request Create new file Upload files Find file Clone or download

johanstokking committed on 11 Jan Merge pull request #692 from TheThingsNetwork/feature/eu-rx2-data-rate Latest commit 6a87cda on 11 Jan

.env	Add localhost IPs to certificates	3 months ago
.github	Update README, CONTRIBUTING and ISSUE_TEMPLATE	10 months ago
amqp	Add details to mqtt/amqp errors	10 months ago
api	Fix locking for conn closing	3 months ago

Secure https://choosealicense.com

Choose an open source license

Which of the following best describes your situation?

I want it simple and permissive.

The **MIT License** is a permissive license that's short and to the point. It lets people do anything they want with your code as long as they provide attribution back to you and don't hold you liable.

I'm concerned about patents.

The **Apache License 2.0** is a permissive license similar to the MIT License, but also provides an express grant of patent rights from contributors to users.

Android, **Apache**, and **Swift** use the Apache License 2.0.

I care about sharing improvements.

The **GNU GPLv3** is a copyleft license that requires anyone who distributes your code or a derivative work to make the source available under the same terms, and also provides an express grant of patent rights from

Secure https://creativecommons.org/choose/

creative commons

License Features

Your choices on this panel will update the other panels on this page.

Allow adaptations of your work to be shared?

Yes No Yes, as long as others share alike

Allow commercial uses of your work?

Yes No

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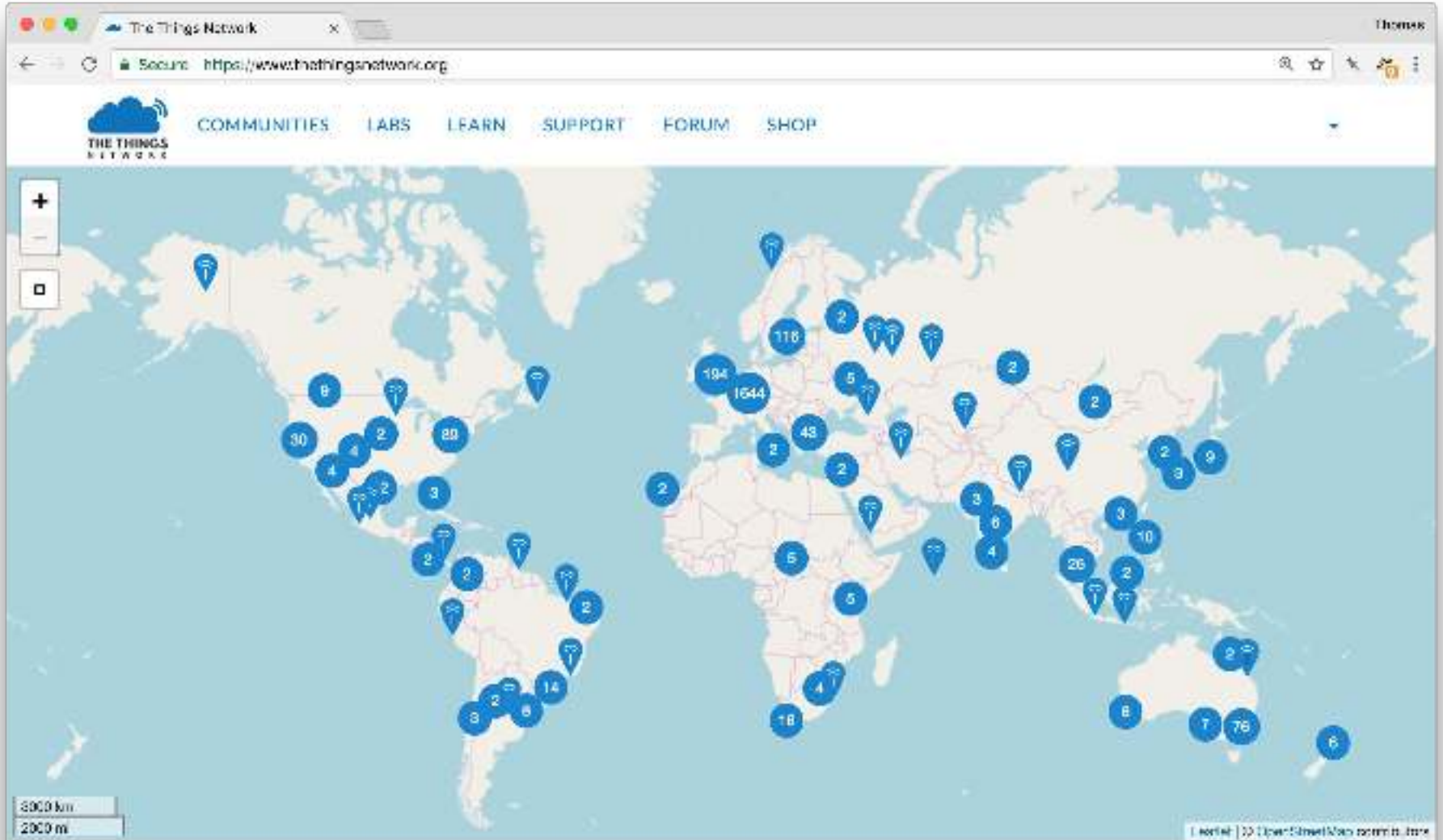
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LEARN
SUPPORT
FORUM
SHOP
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3000 km
2000 mi

The Things Network on Twitter

Twitter, Inc. (US) | https://twitter.com/thethingsntwrk/status/976844562555834368

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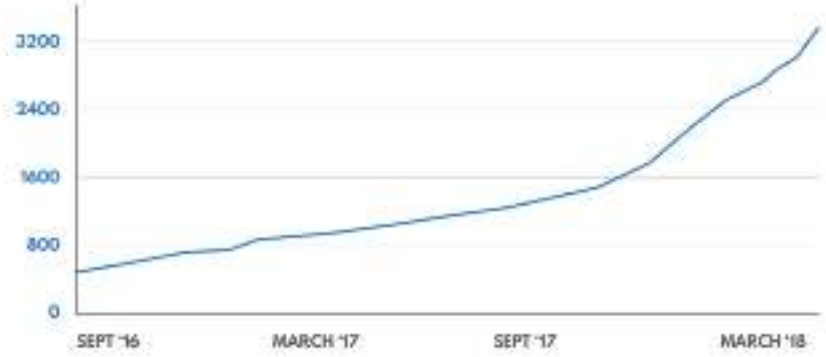

11:35 AM · 20 Mar 2018

21 Retweets **53** Likes

THE TH
N E T W

The Things

@thethingsntwrk

We are on a missi

open #crowdsour

Jürg Lehni

@juerglehni

Following

Let's talk about open-source. I've been developing and maintaining @PaperJS for years. It has 8700 ★ on GitHub. Multiple big companies have done projects and products with it. Yet donations and sponsored features are very few, and I need to accept other work to sustain a living.

9:34 AM - 16 Jan 2018

148 Retweets 271 Likes

11 148 271

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Safecast

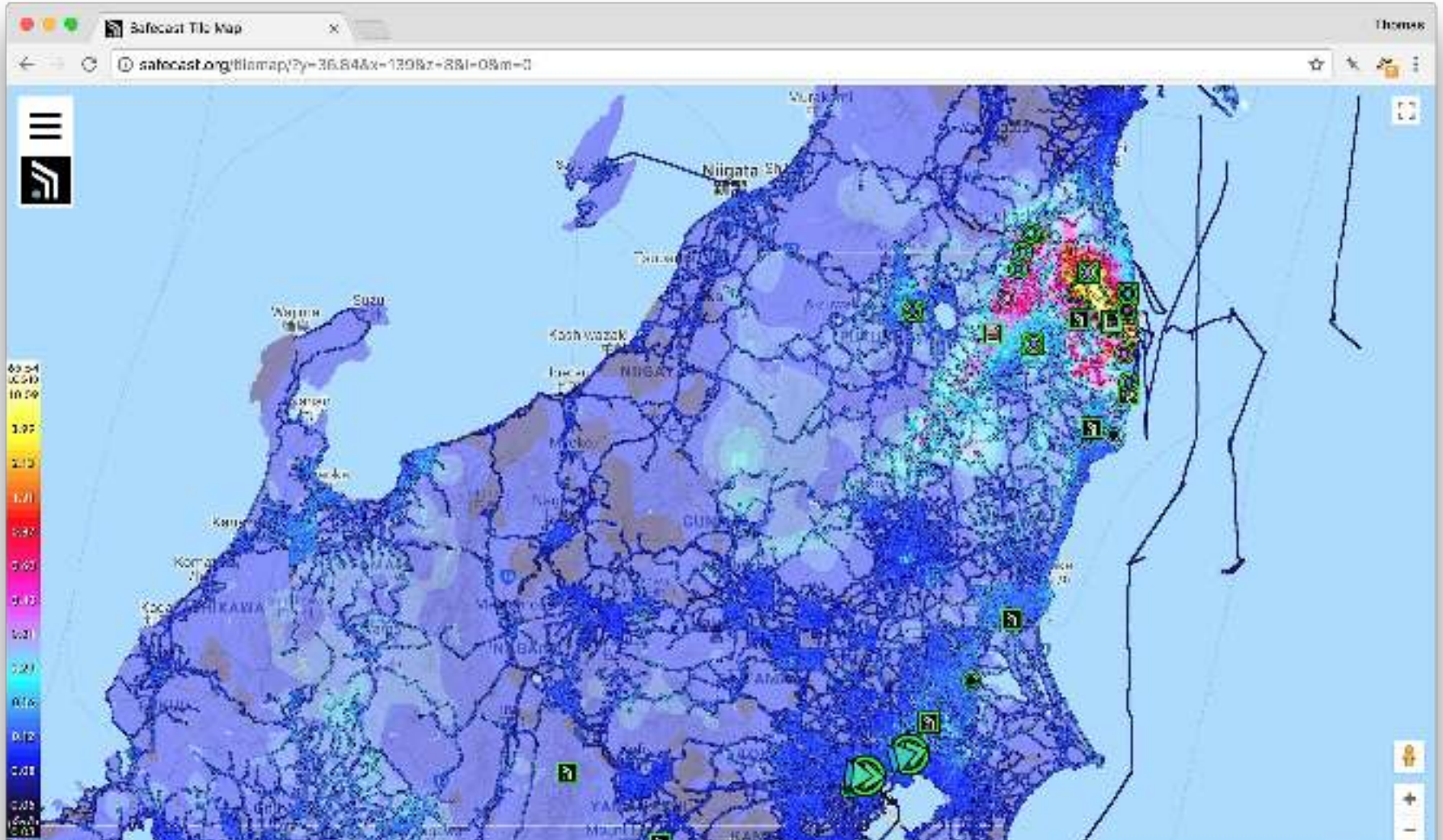
Secure https://blog.safecast.org

SAFECAST

NEWS MAP ABOUT DATA SUPPORT 日本語

OPEN ENVIRONMENTAL DATA FOR EVERYONE

Safecast is a global volunter-centered citizen science project working to empower people with data about their environments. We believe that having more freely available open data is better for everyone. Everything we do is aimed at putting data and data collection know-how in the hands of people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Data | Safecast

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SAFECAST

DATA

Safecast data is published under a CC0 designation

This is a public domain designation and means the data is free and open for anyone to use under any circumstance. We have done this to enable to most flexibility in it's use by others. While you are not legally required to attribute the data back to us, it's a nice thing to do – collecting the data was a lot of hard work. (Joi Ito has written more about this here.) To learn more about the other licenses we use please go here.

Data Governance

Let users export data.

Provide an "offline" switch, explain the consequences.

Never change core functionality.

Sarah Gold on Twitter: "I think ...

Twitter, Inc. [US] | https://twitter.com/sarahtgold/status/976746061002919937

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Sarah Gold
@sarahtgold

Following

I think data ownership is the wrong Q, I think we should be asking how we can each *control* and have agency over data that's about us (nb. this is nuanced - so much data is not just about 1 person, it's about a relationship/ family/ office)

> **Martin Tisné** @martintisne
> .@BBC4today I can't see how data ownership works even in the medium term, does it not put unrealistic burden unto the individual consumer? Eg companies will hide behind the equivalent of obscure T&Cs @hubmum. Good design will help @sarahtgold but not sure that will be enough
>
> Show this thread

10:03 AM · 22 Mar 2018

1 Retweet **10** Likes

Sarah Gold
@sarahtgold

Working on trust,

Joachim Bondo on Twitter: "@ ×

Twitter, Inc. (US) | https://twitter.com/osteslag/status/976047465911717888

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Joachim Bondo
@osteslag

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Replying to @anal

Oh, didn't you hear? Danish insurance company retracts (future) payments to woman after gaining access to her @Endomondo profile. Article in @politiken (in Danish):

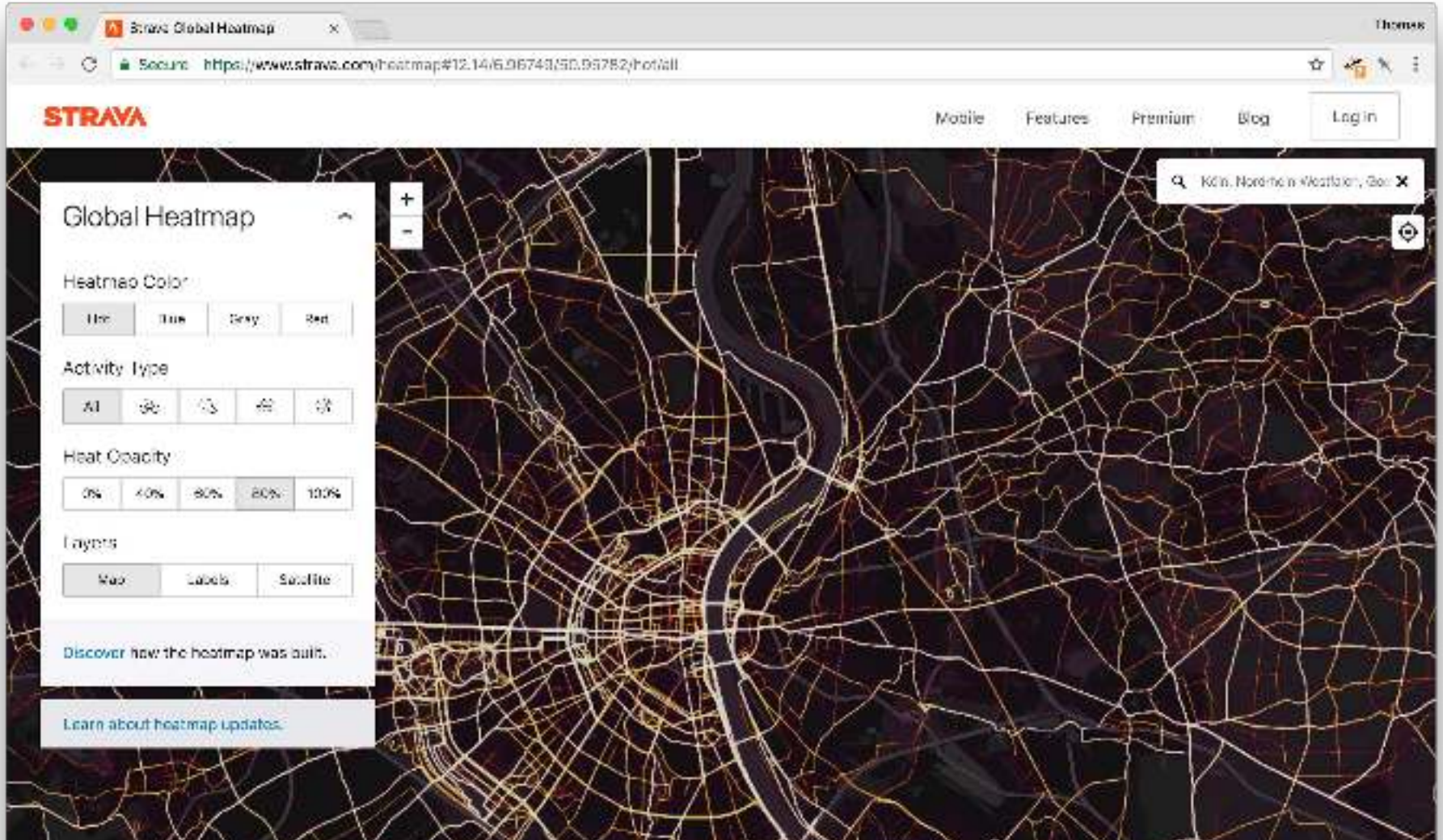
Deling af motionsdata koster kvinde hendes forsikring
En kvinde, der fik udbetalt forsikring for tabt erhvervsevne, har tabt sag efter bevis for labelure fra app.
politiken.dk

11:47 AM - 20 Mar 2018

4 Retweets **10** Likes

3 4 10

Joachim B
@osteslag
IOS developer, cr
Chess (first on Ne


Strava Global Heatmap
Secure https://www.strava.com/heatmap#12.14/6.96743/50.95782/hot/all
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Discover how the heatmap was built.
Learn about heatmap updates.

US military reviewing security practices after fitness app reveals sensitive info

By Joshua Berlinger and Maegan Vazquez, CNN
Updated 1514 GMT (2314 HKT) January 29, 2018

Internet of Things beta

Is the Amazon Echo mic mute a hardware switch?

18

3

I recently got my hands on an Echo Dot.
I'm hesitating to install it, since I'm concerned about my privacy. According to Amazon's privacy notice, they may use all data they capture.

I've noticed that the Amazon Echo comes with a mic mute button, which would be perfect for cutting down on voice data. But since Alexa is closed-source, I wouldn't be convinced that this button will keep my mic off *under all circumstances*.

Is the Echo mic mute button a software or hardware kill switch?

My searches didn't turn out much, mainly because the web is filled with low-quality news and non-technical articles.

asked 3 months ago

viewed 5,775 times

active 3 months ago

Related

14 Making Amazon Echo / Alexa work outside of US, UK, Germany and Canada

21 Is the Amazon Echo 'always listening' and sending data to the cloud?

18 How to change the Amazon Echo wake word?

Or take the case this week of Sonos updating its terms of service to gather more data from users ahead of building out integrations with smart home products like the Amazon Echo. Sonos changed some of its privacy practices to ensure it could gather certain data from its connected speakers. Users could opt out, but it meant that in the future their Sonos devices, which could have been purchased years ago, may one day "cease to function."

Sonos customers are outraged. The idea that a company could break a device that you purchased years before simply by updating its terms of service was not something consumers have ever considered.

And therein lies the problem. At this moment, we're turning our hardware into a platform for software and services, but we still have a mindset that because we own a physical object, we own the functionality associated with it.The Tesla and Sonos

Jared Spool on Twitter: "Users

Twitter, Inc. (US) | https://twitter.com/jmspool/status/981508690594418688

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Jared Spool
@jmspool

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Users don't hate change.

• Users hate when you take control from them.
• Users hate when your change shows no value for them.
• Users hate when they've invested in learning your design, only for you to disregard that investment.

Users don't hate change.

It's you, not them.

2:28 PM - 4 Apr 2018

Jared Spoo
@jmspool

Exploring the bou
Experience and U

Permissions & Ownership

Allow users to switch service providers.

Tidepool

Secure https://tidepool.org/about

TIDEPOOL

About Tidepool

Tidepool is an open source, not-for-profit company focused on liberating data from diabetes devices, supporting researchers, and providing great, free software to people with diabetes and their care teams.

Tidepool on Twitter: "However

Twitter, Inc. (US) | https://twitter.com/Tidepool_org/status/938108258279215104

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However you see your #Dexcom data, we've got options for you to see your data in Tidepool. bit.ly/2ABhQUn

Tidepool
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Tidepool is an op
effort to liberate d

Loop Docs

Secure https://loopkit.github.io/loopdocs/

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🖐🖐 Kudos to @contourascensia (formerly Bayer) for always making device protocols openly available. bit.ly/2yEV2BB #diabetes

7:10 PM - 20 Oct 2017

4 Retweets **11** Likes

Transparency

Make legal implications of product usage clear.

State how long you will support the product for.

EU Roaming Regulations

To comply with EU regulations BT have introduced the following changes that impact mobile usage and associated charges when travelling within the EU (excluding the UK).

1) A welcome SMS will be sent to all customers within the EU

This will notify customers of the EU charges that will be incurred when:

- making or receiving voice calls
- sending or receiving texts (SMS)
- sending or receiving picture messages (MMS)
- sending or receiving data (mobile internet)

2) Price reduction introduced for roamed calls and SMS originating and terminating within the EU.

Good Night Lamp™

Country List

The Good Night Lamp works in the following countries (even when you move!)

Africa

Benin
Cape Verde
Democratic Republic of Congo
Egypt
Gambia
Ghana
Kenya

Koubachi - Your Plant Care Ac... ×

www.koubachi.com

Koubachi will retire

After the acquisition by Husqvarna Group and the availability of the GARDENA smart system, Koubachi discontinues selling own products. The Koubachi servers will go through a sunset period of 3 years. You have our guarantee that we will not shutdown our systems before end of 2018.

A journey ends and a new one begins

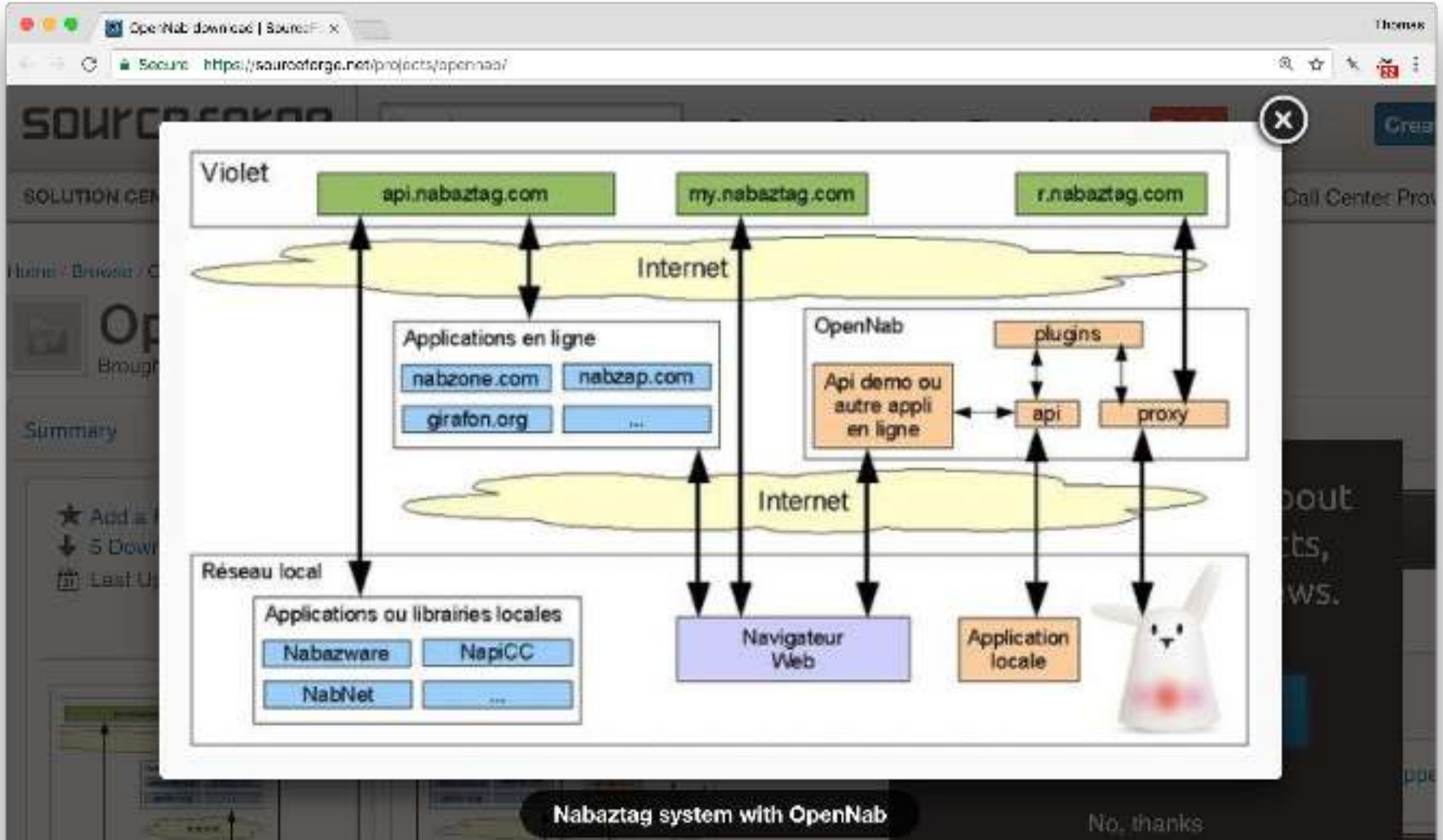
After being acquired by the Husqvarna Group, Koubachi is now part of the GARDENA smart system team. Koubachi will continue to innovate and shape the gardening of the future.

The last six years have been the ride of our lives. We love doing what we do and are very happy to now be part of the Husqvarna family. I'm looking forward to bringing our excitement for excellent smart products to GARDENA customers world wide.

— Dr. Philipp Bolliger, CEO & Co-Founder

Continued Support & 3-year Sunset Period

Koubachi will be offering support until the end of the sunset period. If you have purchased a product you can contact our support at support@koubachi.com or via our support portal. The Koubachi Server will be operated until the end of the sunset period and then will be shutdown permanently.



Nabaztag system with OpenNab

Cessation of service [edit]

Mindscape, filing for bankruptcy, discontinued the Nabaztag/tag web service in late July 2011.[18]

Alternative servers are available, including:

- NabaztagLives.com
- NablzDead
- OpenJabNab
- OpenNab (written in PHP)
- Trudy
- other services

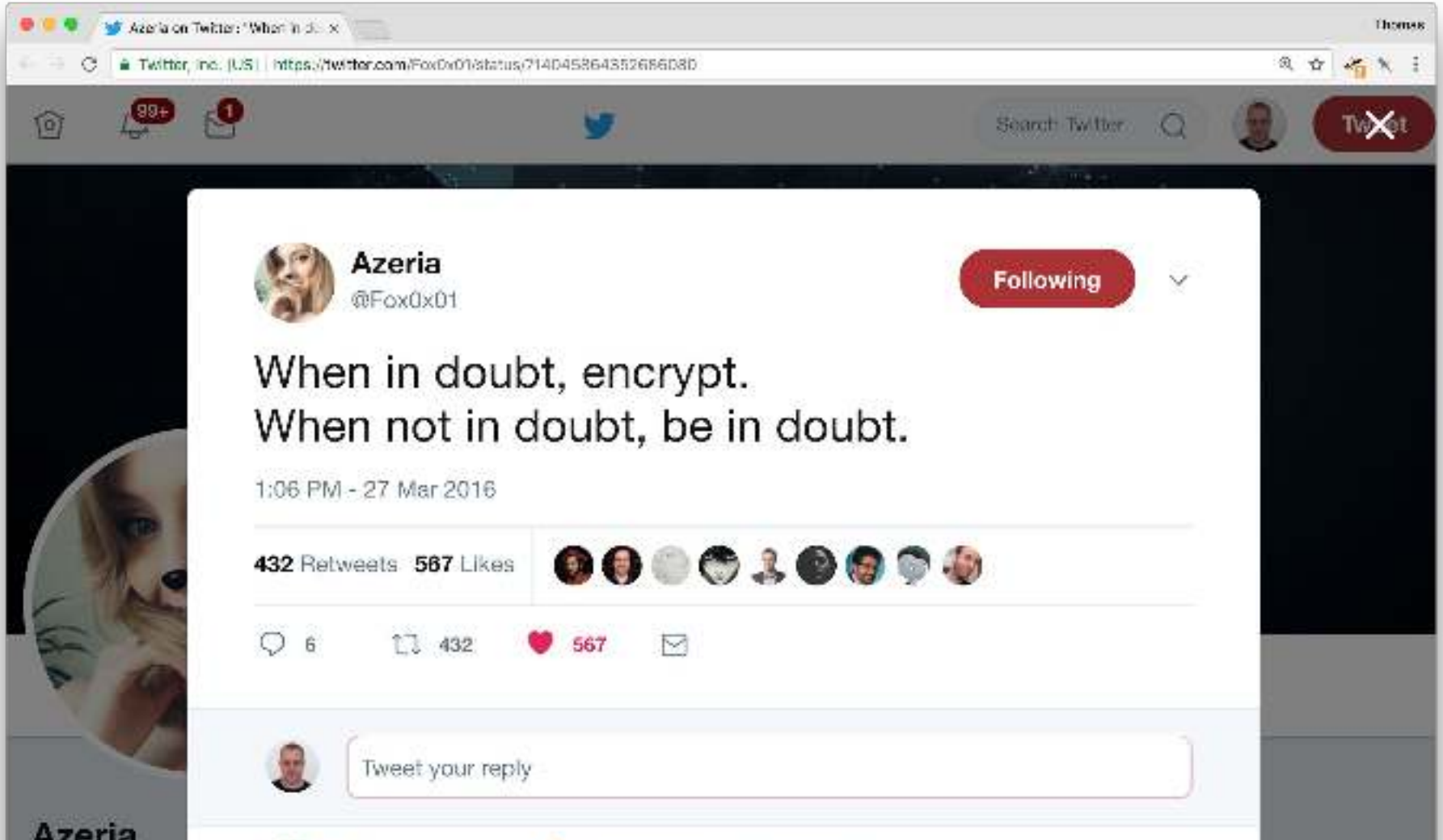
It however should be noted that these services, and others not listed here, can't support the older Nabaztag.

The older units can currently be connected to a user-driven restoration

Security

Adopt good practices across hardware, firmware, user identity management, admin functions and backend services.

Offer factory reset.


Azeria
@Fox0x01
Following
When in doubt, encrypt.
When not in doubt, be in doubt.
1:06 PM - 27 Mar 2016
432 Retweets 567 Likes
6
432
567
Tweet your reply

We all know that the majority of consumer smart IoT products are insecure, but I wanted to investigate **WHY security of these devices is so bad**.

What are the underlying causes? Why and how does insecure product get to market?

I've spoken to numerous IoT vendors, hardware manufacturers, IoT integrators and platform

Categories

Show all

See the other cool stuff we've been doing...

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Maersk wasn't hacked
03 APR 2018

MARITIME CYBER SECURITY
Crashing ships by hacking NMEA sentences
26 MAR 2018

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19 MAR 2018

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Secure https://www.pentestpartners.com/internet-of-things/

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industrial internet CONSORTIUM

IIC Endpoint Security Best Practices

IIC:WHT:IN17:V1.0:PB:20180312

Application Note: Mapping the IoT Security Foundation's Compliance Framework to the DCMS proposed Code of Practice for Security in Consumer IoT

March 7

2018

Applying technical controls from the IoT Security Compliance Framework to meet the DCMS proposed Code of Practice for Security in Consumer IoT Products and Associated Services

IoTSF Working Group Document

Internet of Things security best practices

01/17/2018 • 6 minutes to read • Contributors

In this article

Securing an Internet of Things (IoT) infrastructure requires a rigorous security-in-depth strategy. This strategy requires you to secure data in the cloud, protect data integrity while in transit over the public internet, and securely provision devices. Each layer builds greater security assurance in the overall infrastructure.

About ORWL | ORWL

Secure https://orwl.org/about-orwl-first-open-source-physically-secure-computer/

Meet [ORWL].

[ORWL] is a tamper proof open source physically secure by design endpoint (embedding a workstation computer) that allows its user to operate work with sensitive and/or valuable data within a potentially hostile environment.

This physically protected device will instantly destroy all (hardware encrypted) data it contains at the first physical attempt to tamper with it.

Lifecycle

Help users repair things.

Offer spare parts for the lifetime of your product.

Be transparent about production processes and who you buy from.

Fairphone 2 Teardown - iFixit

Secure https://www.ifixit.com/Teardown/Fairphone+2+Teardown/52523

- Fairphone 2 Repairability Score: **10 out of 10** (10 is easiest to repair)
- The LCD and cover glass are fused, simplifying removal, but significantly increasing the cost of replacement.
- The most commonly failing components, battery and display, can be replaced without tools.
- Internal modules are secured with Phillips #0 screws and simple spring connectors.
- Individual modules can be opened, and many components can be individually replaced.
- All buttons and cables are easily accessible. Spring contacts allow for future upgrades and easy component swaps.


20180202_124224 | Thomas
Thomas
Secure https://www.flickr.com/photos/tamberg/26212945738/in/photostream/lightbox/
SAFECAST
SAFECAST
SAFECAST SOLARCAST

My ancient Super Nintendo went POP and died, so on a whim I called the support number on the back just to see what would happen.

A nice lady from @NintendoAmerica spent 10 minutes with me troubleshooting possible causes. On a nearly 30-year old system.

Similar initiatives

The time is right.

Audio - The Economist Store

Secure https://ukshop.economist.com/collections/audio#

The Economist STORE

Wishlist Account Cart (0)

Sort by Date, new to old

Home · openiotmark/iotmark ×

GitHub, Inc. (US) https://github.com/openiotmark/iotmark-principles/wiki

Similar initiatives

http://www.consumersinternational.org/media/154809/iot-principles_v2.pdf

> Securing consumer trust in the IoT, Principles and Recommendations 2017 - Connectivity and inclusion; Information and transparency; Ownership and use; Security and safety; Liability; Data protection and privacy online; Complaints handling and redress; Competition and choice; Lifecycle

https://harpers.wirelessink.com/2006/02/16/everyware-the-dawning-age-of-ubiquitous-computing/

> Everyware Principles - Do no harm; Default to harmlessnes; Be self-disclosing; Be conservative of face; Be conservative of time; Be deniable

https://www.thewavingcat.com/iot-trustmark/

> A Trustmark for IoT - Good data practices; Good security practices; Openness; Lifecycle management; Establishing that the producing organization is trustworthy

https://www.crowdsupply.com/about

> Proclamation of user rights - Curiosity; Independence; Association; Longevity; Transfer; Discourse; Privacy; Security

https://docs.google.com/spreadsheets/d/1u-4g1XjtdYNaLnil1fSPzsv1v6OuTiTM3MuOjaFEI1Q

> IoT Mark Landscape of 30+ similar initiatives

https://docs.google.com/document/d/1SN6nYeKe3eRK6x9D0Sr/GpCA4nirpyo3u68xG1A6NDs

iotmark_landscape

IoT Mark Principles

By contributing you agree that this work by iotmark.org is licensed under CC BY-SA 4.0

Name	URL	Assessed by (please put your name down if you're looking at it)	Organisation	Origin country	Language		Zoom level		Focus									
		Add "proof" for individual data points w/ a short comment, if not obvious =>			Technical language	Simple words	High level or overview	Detailed advice or requirements	Safety	Security	Privacy	Data ownership	Provenance	Impact on environment	Repairability	Interoperability	Openness	Transparency
IoT Mark Principles	https://github.com/openiotmark/iotmark-principles/		#iotlondon community	UK	x			x		x	x	x	x		x	x	x	x
IoT Security Foundation Principles	https://iotsecurityfoundation.org/wp-content/uploads/2017/03/IoTSF-Establishing-Principles-for-IoT-Security-Download.pdf		IoT Security Foundation	UK				x		x	x							
Securing consumer trust in the IoT: Principles and Recommendations 2017	http://www.consumersinternational.org/media/154804/iot-principles_v2.pdf		Consumers International	UK		x		x	x	x	x	x			x	x		x
TÜV Rheinland - IoT Privacy Certificate	https://www.tuv.com/landingpage/en/iot-privacy-mark-certificate	G	TÜV Rheinland	Germany	x			x			x							

IOT DESIGN MANIFESTO 1.0

IOT DESIGN MANIFESTO 1.0

Guidelines for responsible design in a connected world

ABOUT • DOWNLOAD • SIGN

BetterThings – Page 2

www.betterthings/2/

Better things is a standard and a certification system for connected products.

Technological Opportunities

Utilization of capabilities that are unique to Connected Objects.

Context

How well this product integrates in the lives of the persons using it.

Interusability

The operation of the product in the larger ecosystem of connected things.

Privacy

The application of privacy measures in the product, ecosystem and company.

Meaning & Purpose

The function, contribution and significance of the product.

Health & Safety

The product's effect on the health and safety of those who use it.

Community

The effect of the product on the community in which it resides.

Cost & Access

Availability and cost-effectiveness.

Sustainability

Design for maintenance, upgradability and eco-friendliness.

SECURING CONSUMER TRUST IN THE INTERNET OF THINGS

PRINCIPLES AND RECOMMENDATIONS 2017

Future

Spread the word.

Make, learn, share.

Automate assessment?

Understanding Terms and Conditions

Terms and conditions are broken — people don't have time to read them and some companies use them for permissions people would find surprising. Unreadable T&Cs aren't a meaningful, two-way agreement between a person and a company. They likely won't meet GDPR's high standard for getting consent. What's more, they can be harmful to a company's bottom line.

Over the last few weeks we've been thinking about improving terms and conditions. We've been learning by making and talking to experts.

We started out with a tool to parse and display terms

The first thing we did was build a prototype to test making it easier for people to read terms and conditions by highlighting certain words and phrases, for example 'personal information'.

This was a simple starting point that could lead to more sophisticated natural language processing and automatic analysis of terms.

SSL Server Test: yaler.net (Po

Secure https://www.ssllabs.com/ssltest/analyze.html?d=yaler.net

Qualys. SSL Labs

Home Projects Qualys.com Contact

You are here: Home > Projects > SSL Server Test > yaler.net

SSL Report: yaler.net (46.137.85.10)

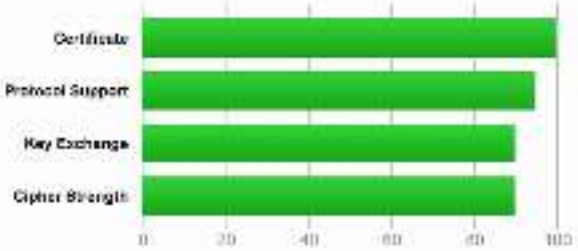
Assessed on: Thu, 05 Apr 2018 03:06:05 UTC | Hide | Clear cache

Scan Another »

Summary

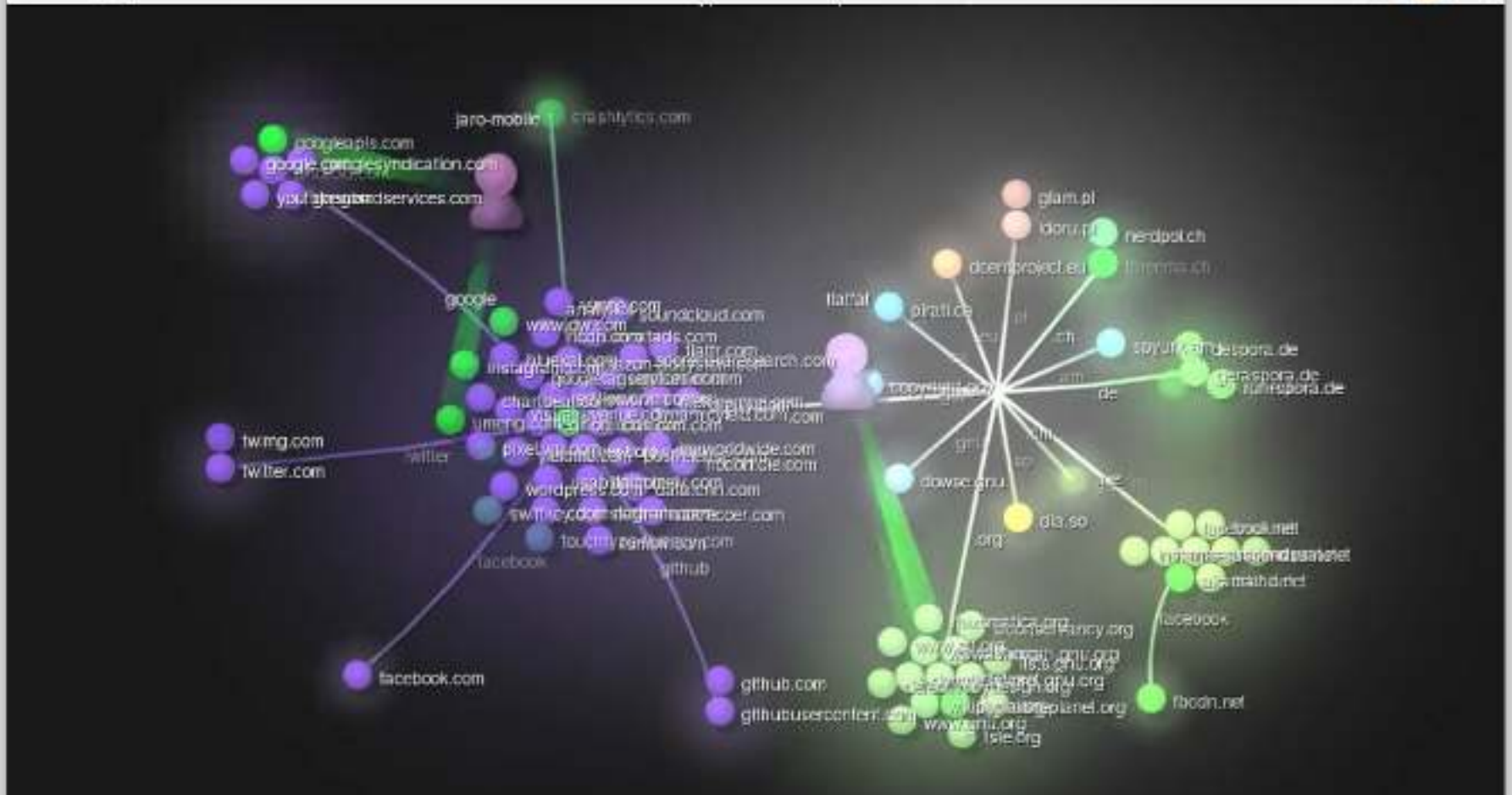
Overall Rating

A



Visit our documentation page for more information, configuration guides, and books. Known issues are documented here.

DNS Certification Authority Authorization (CAA) Policy found for this domain. MORE INFO »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jaro-mobile
crashlytics.com
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google.com
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piratl.de
dawse.gnu
dia.so
fbcdn.net

Thank you.

betteriot.org → Slack

I'm @tamberg

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