

Open Internet of Things Certification Mark

#iotmark

@iot__mark

About us

The Open Internet of Things Certification Mark is a community-led project initiated in 2017 by Alexandra Deschamps-Sonsino (@iotwatch) and Usman Haque (@uah) based on the Open Internet of Things Definition (2012).

JUNE 19, 2017

Shaping better connected products.



Alexandra D-S

@iotwatch Follows you

#iot consultant @GNLamp @designswarm
@iotlondon @knowcards @goodhomeproject
@iot__mark / writing a book on #smarthomes
for @Apress/ managed by @londonspeaker

📍 London

🌐 designswarm.com

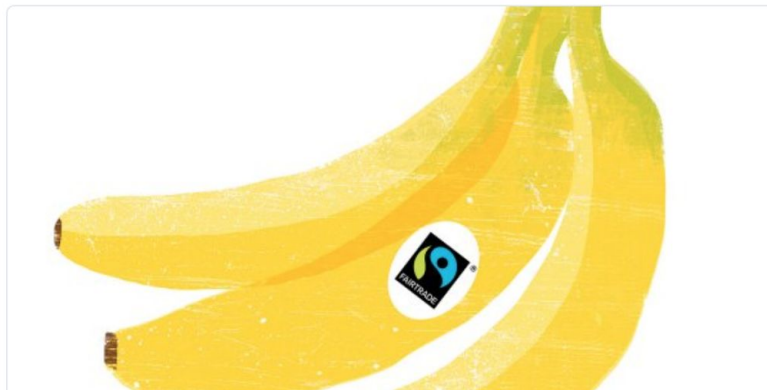


Alexandra D-S

@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'...

medium.com

11:24 AM - 6 Nov 2017

3 Retweets 11 Likes





Peter Bihr

@peterbihr Follows you

Curious about the impact of emerging tech, IoT, AI. @thewavingcat: Strategy, research & foresight. @ThingsCon: Advocate for a responsible #IoT. @ZephyrBerlin: A

Berlin, mostly

thewavingcat.com

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 ★★★★★





OCTOBER 18, 2017

30 principles for an Open Internet of Things Certification Mark.

Privacy

Contributors: Mark Simpkins (@marksimpkins)

1. The product or service the company supplies **MUST** be General Data Protection Regulation (GDPR) compliant.
2. The company **SHALL NOT** utilise their products to sell customer data to third parties without the knowledge of their customers.
3. Their customer's data **SHALL NOT** be used for profiling, marketing or advertising without transparent disclosure.

Interoperability

Contributors: Andy Stanford-Clark (@andysc), Boris Adryan (@borisadryan), Peter Robinson (@nullrOute), Bob van Luijt (@bobvanluijt), Thomas Amberg (@tamberg)

1. The company **MUST** allow third parties to connect devices, apps and services to its backend API.
2. A company **SHOULD** grant third parties the same functional scope on the backend as its own devices, apps and services.
3. A company **MUST** allow third parties to communicate with its devices.

Openness

Contributors: Thomas Amberg (@tamberg)

1. A company SHOULD publish the device source code under an open source license.
2. A company SHOULD publish the device hardware designs under an open hardware license.
3. The company SHOULD publish the backend source code under an open source license.

Data Governance

Contributors: Dr. Alison Powell, Mark Simpkins (@marksimpkins), Selena Nemorin (@digiteracy)

1. The company SHOULD make it visible to its customers what data and channels of communication the device / service uses.
2. The company MUST/SHOULD make it possible for customers to turn off the connection/s to any data cloud. They should make clear the 'risk' associated with doing this.
3. The company MUST not degrade/change the current core functionality of the device in the future in order to maintain the current functionality.

Permissions & Entitlement

Contributors: Martin Dittus (@dekstop), Mark Simpkins (@marksimpkins),
Selena Nemorin (@digiteracy)

1. A company SHOULD offer customers the right to transfer ownership of hardware, to export their data, and to migrate service providers.
2. The company MUST be explicit as to the expected duration of terms (e.g. for how many years is device support guaranteed?)
3. If a company wants to change the above, it MUST first ask permission from the customer (not just notify, or silently change terms).

Transparency

Contributors: Pilgrim Beart (@pilgrimbeart)

1. A company **MUST** be explicit to a customer as to whether there are secondary legal obligations, e.g. if they're buying car insurance via a monitoring device, they might have an obligation to provide valid data.

Security

Contributors: Mark Carney @LargeCardinal, Graham Markall @gmarkall, Jan-Peter Kleinhans

1. The company **MUST** provide minimum cryptographic security on its servers & secure configuration
2. The company's backend service systems **MUST** implement additional secure setup options (aka Defence In Depth)
3. The company **SHOULD** implement reliable and appropriate patching procedures which should be evidenced.

Lifecycle, provenance, sustainability & futureproofing

Contributors: Alasdair Allan (@aallan), Chris Adams (@mchrisadams), Adrian McEwen (@amcewen), Dries De Roeck (@driesderoeck), Matthew Macdonald-Wallace (@mbconsultinguk), Joanna Montgomery (@joannasaurusrex), Gavin Starks (@agentGav)

1. The company **MUST** be clear about the expected lifetime of the product and the expected support the customer should expect
2. The company **MUST** document any parts that a customer could be realistically expected to repair.



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tamberg Cleanup.

6b07453 on 22 Oct 2017

1 contributor

228 lines (152 sloc) | 15.2 KB

Raw

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History



IoT Mark Principles

(Manually synced mirror of GDoc; to comment, [file an issue](#))

Open IoT Certification Mark Principles – October 18th 2017

Draft edited by Alexandra Deschamps-Sonsino ([@iotwatch](#))

Privacy

general | iotmark Slack

Thomas

Secure

https://iotmark.slack.com/messages/C5WKJS329/

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Monday, January 8th


Doodle: #iotmark physical meeting (Berlin)

Doodle radically simplifies the process of scheduling events, meetings, appointments, etc. Herding cats gets 2x faster with Doodle. For free! (7 kB) ▾




👍 3

Thursday, January 11th

 geussepegc 12:24 AM

Great!!

Sunday, January 21st

 designswarm 2:56 PM

Hi everyone, our physical meeting looks like it's going to be March 9th in Berlin. If anyone has access to a meeting room and can host us for the day, that would be fab!

👍 2

+

Message #general

@ 😊

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IoT Mark Principles

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	By contributing you agree that this work by iotmark.org is licensed under CC BY-SA 4.0																		
2	Name	URL	Assessed by (please put your name down if you're looking at it)	Organisation	Origin country	Language		Zoom level		Focus									
3			Add "proof" for individual data points in 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
4	IoT Mark Principles	https://github.com/openiotmark/iotmark-principles/		#iotlondon community	UK	x			x		x	x	x	x		x	x	x	x
5	IoT Security Foundation Principles	https://iotsecurityfoundation.org/wp-content/uploads/2015/09/IoTSF-Establishing-Principles-for-IoT-Security-Download.pdf		IoT Security Foundation	UK				x		x	x							
6	Securing consumer trust in the IoT, Principles and Recommendations 2017	http://www.consumersinternational.org/media/154809/iot-principles_v2.pdf		Consumers International	UK		x		x	x	x	x	x			x	x		x
7	TÜV Rheinland - IoT Privacy Certificates	https://www.tuv.com/landingpage/en/iot-privacy/main-navigation/iot-certificates/	G	TÜV Rheinland	Germany	x			x			x							

OCTOBER 28, 2017

Mozfest 2017 edition

HOME ►

30 PRINCIPLES FOR AN OPEN INTERNET OF THINGS

We ran a workshop sharing our principles with participants on Saturday 28th of October 2017 at the Mozilla Festival. Here is a list of principles as participants rewrote them. We will be considering how these interact with our existing principles look forward to your feedback!

1. A company MUST provide a product which is GDPR compliant.
2. A company MUST provide access to the core functionality of a product through a documented API using open protocols.
3. A company MUST either submit the hardware and software to an independant audit to verify compliance or open source or both.
4. A company SHOULD make it visible to its customers what data channels

#iotmark - a certification mark for IoT

Survey results are licensed CC BY-SA, iotmark.org

Pick a connected product

- ☐ Plant watering sensor
- ☐ Thermostat
- ☒ Blood sugar sensor

Pick a perspective

- ☒ Consumer
- ☐ Manufacturer

Prioritise the below principles

	High	Medium	Low
A company MUST provide a product which is GDPR compliant.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

A company MUST provide access to the core functionality of a



goo.gl/ct875g