


NAME: IOT


DATE: September 10, 2020 1:08 PM

DESCRIPTION OF TECHNOLOGY
Security guidelines in IOT devices




HUMAN VALUES

the user becomes more aware of flaws and vulnerabilities in IOT devices and applications.




TRANSPARENCY

this project is a set of guidelines that will not have a function or business model.




IMPACT ON SOCIETY

there are a lot of common vulnerabilities in IOT devices but there are no clear guidelines that address these and give solutions to fix them.




STAKEHOLDERS

- intersect(Casper)
- intersect(Mark)
- Ctouch




SUSTAINABILITY

because it is a document there is no real account for energy use. it mainly depends on the way of reading.




HATEFUL AND CRIMINAL ACTORS

Hackers can use this guideline to find common vulnerabilities in IOT devices and exploit this knowledge in their next attack.




DATA

the limitations of our research will be named in our guidelines.




FUTURE

IOT will grow significantly in the future because we keep searching for ways to make life easier. The guidelines however will become outdated because of the continuing growth and improvement in technology and the growing awareness of security risks. means that there will be new vulnerabilities.




PRIVACY

our guidelines do not capture personal data.






INCLUSIVITY


our guidelines will have a bias because it is mainly meant for developers which makes it difficult to read for non-developers. there will however be sections that are understandable for everyone.



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DESCRIPTION OF TECHNOLOGY
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HUMAN VALUES 


How does your technology affect the identity of the user(s)?

To answer this question think about sub questions like: can the technology be perceived as stigmatising? Does the technology imply or impose a certain belief or world view? Does the technology affects user(s) dignity? Is the technology in line with the person the user wants to be perceived as?

TRANSPARENCY 


(How) is explained to the users how a technology works and how the businessmodel works?

Is it easy for users to find out how your technology works? Can a user understand or find out why your technology behaves in a certain way? Are the goals explained? Is the idea of the technology explained? Is the technology company transparent about the way their business model works?

IMPACT ON SOCIETY 


What is the challenge at hand? What problem (what 'pain') does this technology want to solve?

This technology is designed to solve a problem. That is why it is important to exactly define which problem this technology is going to solve. Can you make a clean definition of the problem? What 'pain' does this technology want to ease? Whose pain? The problem definition will help you to determine and discuss if you are solving the right problem.

STAKEHOLDERS 

What are the main users/targetgroups/stakeholders for this technology?

For the quickscan, you only have to list the stakeholders. Can you think of the people that are directly or indirectly affected by this technology? There are a lot of stakeholders that are obvious (like users) but we invite you also to think about the less obvious ones. Missing a stakeholder can have large consequences.

SUSTAINABILITY 


In what way is the direct and indirect energy use of this technology taken into account?

One of the most prominent impacts on sustainability is energy efficiency. Consider what the service is that you want this technology to provide and how this could be done that with a minimal use of energy.

HATEFUL AND CRIMINAL ACTORS 


In which way can this technology be used to break the law or avoid the consequences of breaking the law?

Can you imagine ways that this technology can or will be used to break the law? Think about invading someone's privacy. Spying. Hurting people. Harassment. Fraud/identity theft and so on. Or will people use this technology to avoid facing the consequences of breaking the law (using trackers to evade speed radars or using bitcoin to launder money, for...

DATA 


Are you aware of the limitations and subjectivity of data and is this reflected in this technology?

It is important to understand the limitations of data and it is equally important to design a technology accordingly. Are you aware of limitations of the data used? How does this technology copes with concepts like subjectivity, incomplete datasets, feedbackloops and so on?
...

FUTURE 


What could possibly happen with this technology in the future?

Discuss this quickly and note your first thoughts here.

PRIVACY 

Does this technology register personal data? If yes, what personal data?

If this technology registers personal data you have to be aware of privacy legislation and the concept of privacy. Personal data can be interpreted in a broad way. Maybe this technology does not collect personal data, but can be used to assemble personal data. If this technology collects special personal data (like health or ethnicity) your should be extra...

INCLUSIVITY 

Does this technology have a built in bias?

Do a brainstorm. Can you find a builtin bias in this technology? Maybe because of the way the data wascollected, either by personal bias, historical bias, political bias or a lack of diversity in the people responsible for the design of the technology? How do youknow this is not the case? Be critical. Be aware of your own biases.

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