

The Internet of Things:

How mobile devices and smart homes Affected

One of the hot topics in the technology world is “The Internet of things” or IoT for short. Although, what does this phrase actually mean and how does it affect our daily lives? Mainly, how does it affect are smart homes and mobile devices?

The Internet of things is usually referring to a network of physical devices, which can be anything from a vehicle to a fridge, that collect and share data among each device on the network. These devices are embedded with electronics, software, sensors, actuators, and even network connectivity. All of these embedded devices are what allow the device to collect and share data between each other over the network. It can be said that the internet of things will make a new type of relationship between the physical devices connected to the network which has never been seen before. This machine-to-machine communication is the core of the Internet of Things and what it is based on. Now that what the internet of things as been explained the next thing to do is find out how a mobile device and smart home would be affected by the internet of things.

There are many ways that the internet of things can affect smart homes. The Internet of Things can be applied to a smart home to help reduce the waste that the smart home produces and improve the efficiency in terms of energy usage. One example of this could be that the embedded devices in the smart home can accurately detect which room you are in and turn off power to other rooms if it determines you will not be entering the room for awhile. Another example would be turning on the air conditioning using your smartphone when you leave your office so when you get home

it is at just the right temperature. It is even possible to monitor the whole house while it is empty by connected security cameras that can be linked to a smartphone.

Essentially, the first and most evident benefit that will come from the internet of things is convenience. The only problem right now with integrating smart devices in the home is price, which should go down over time. Some examples for the smart home include using a smartphone, but how does the internet of things really affect smartphones?

The internet of things will make the smartphone more essential in the lives of people than ever before. People will be able to basically control their whole world from their smartphone. They can use it to adjust the thermostat, turn on or off the lights in the house, open the garage, check the fuel level in their car, and even more. All of the possibilities for this new technology can not even be imagined yet. This convenience will help people save time, which will allow them to focus on other, more meaningful, tasks. Although, even with all of this convenience there comes security issues.

All of those devices that make up a smart home are connected with each other over the internet and most of their devices have little to no security. This means that integrating these devices, that collect lots of sensitive data, in your life will open up the front door electronically to other people, so to speak. The smartphone that is used to control the smart house though can be a big security risk, because if someone stole the smartphone they could then be able to access the smart house with no problem, as long as they are able to get into the smartphone. This means that all the private data the embedded devices collect can easily be accessed by someone else. Most devices

though already collect lots of personal data that can be traded on the open market legally, although this already happens with many other things in today's world as well.

The internet of things will be very widespread in the future. It is also going to affect mobile devices and smart homes. The reality is that there are an endless possibilities when using the Internet of Things, and some of those possibilities can not even be understood today.

Resources

https://en.wikipedia.org/wiki/Internet_of_things

<https://www.forbes.com/sites/jacobmorgan/2014/05/13/simple-explanation-internet-things-that-anyone-can-understand/#98bbcad1d091>

<https://www.wired.com/insights/2014/11/the-internet-of-things-bigger/>

<http://www.businessinsider.com/internet-of-things-security-privacy-2016-8>

<http://www.businessinsider.com/internet-of-things-smart-home-automation-2016-8>

<http://www.sandiegouniontribune.com/sd-me-connected-home-20170423-story.html>