

An evaluation of an IoT Marketplace

MICHAEL JIVUNG AND CARL TIDELIUS

Lunds Tekniska Högskola

Mentor: Emma Fitzgerald and Ulrik Sjölin

Examinator: Christian Nyberg

Data is an invaluable source of information and more data has been collected this last year than the previous 5000 years combined. Data collected with the help of the Internet of Things has further increased the collection rate, but the monetization of this data is slow.

1. INTERNET OF THINGS

The ever increasing digitalization of our society has led to a now existing cascade of devices and sensors that collect and send data. The concept of a big number of online devices and sensors is nowadays referred to as Internet of Thing (IoT) and expected to grow heftily in the future. The data that is collected is very valuable as it can be used by a number of different parties to gain knowledge and ultimately wisdom. Right now most of the data collected is being stored and is forgotten about, without realizing the potential asset it could be. Not only that, a lot of data is being discarded right away, like the temperature data coming from your temperature sensor you have in your home. An up and coming concept has been under development to combat the waste of data it is finally starting to emerge; the IoT marketplace.

of the largest incentive to use the BAE is the possible ability it has to offer any of these subjects. An interesting find was that though FIWARE promoted the BAE as a project to allow the monetization of different kind of assets, this required plugins and third party software. Another incentive is the fact that the BAE is completely open source, and can be acquired and hosted by anyone. That said, the BAE is lacking in some areas, and adopters will most likely have to customize and perhaps even modify the software in order for it to fit their needs.

2. BUSINESS API ECOSYSTEM

In the IoT marketplace world, there is also a lack of marketplaces that both offers data as well as services. Sensative, our master thesis employers, has begun its adoption of FIWARE, a EU supported IoT platform used by many Smart Cities in Europe. FIWARE has created an IoT marketplace called Business API Ecosystem which Sensative wants evaluated. The software is open source, which means that anyone can procure and change it to their liking. How good is the Business API Ecosystem and is it a viable option when choosing an IoT marketplace?

Our hopes are that, with the help of our report, organizations and business will gain the knowledge that gives them the ability to make an educated decision on whether or not to use the Business API Ecosystem.

3. WHAT ARE OUR FINDINGS?

The data marketplaces of today mostly focus on a single subject, such as Data streams, Data sets or Services related to data. One