

controlled by a varying number of distributed processing units.

For our future work we plan to further investigate the authentication and encryption needed to accommodate the communication between things of different complexities and in particular try to support things that have their own (possibly physical) security mechanisms in larger scale WoT applications. In addition, we intend to improve support for the mobility of things as well as the production and consumption of continuous data flows.

Acknowledgements

Special thanks to professors Junia Coutinho Anacleto and Sidney Fels, for their advice, support and direction. This work was partially supported by the CAPES/DFAIT Brazil-Canada collaborative research program with additional support from AeroInfo Systems Inc.

References

- [1] About Java Message Service.
<http://docs.oracle.com/javaee/6/tutorial/doc/bncdr.html>
- [2] About MongoDB
<http://www.mongodb.org/about/introduction/>.
- [3] About Spacebrew.
<http://docs.spacebrew.cc/about/>.
- [4] Blackstock, M., Kaviani, N., Lea, R. and Friday, A. MAGIC Broker 2: An Open and Extensible Platform for the Internet of Things. Internet of Things 2010 International Conference (IoT 2010), 1–8.
- [5] Blackstock, M. and Lea, R. IoT Mashups with the WoTKit. 3rd International Conference on The Internet of Things (IOT 2012), 159 –166.
- [6] Gubbi, J., Buyya, R., Slaven, M. and Marimuthu, P. Internet of Things (IoT): A vision, architectural elements, and future directions.
<http://dx.doi.org/10.1016/j.future.2013.01.010..>
- [7] Guinard, D. A Web of Things Application Architecture. PhD Thesis. ETH Zurich, Zurich, Switzerland, 2011.
<http://www.webofthings.org/dom/thesis.pdf>.
- [8] Open Sen.se Feel, Act, Make sense, Feel, Act, Make sense. <http://open.sen.se/>
- [9] Ponnekanti, S.R., Johanson, B., Kiciman, E. and Fox, A. "Portability, Extensibility and Robustness in iROS," IEEE PerCom, 2003, p. 11.
- [10] Spring Framework.
<http://www.springsource.org/spring-framework>.
- [11] The Internet of Things – ThingSpeak.
<https://thingspeak.com/>.
- [12] Xively - The Internet of Things is Open for Business" <https://www.xively.com>