

ACKNOWLEDGMENTS

The authors would like to thank the anonymous reviewers for their valuable comments and helpful suggestions. This paper is partially supported by the Key Program of National Natural Science Foundation of China under Grant No.: U1636217, the National Key Research and Development Program of China under Grant No.: 2016YFB0801200 and Major Program of Shanghai Science and Technology Commission under Grant No.: 15511103002.

REFERENCES

- [1] 2017. JoyLink 2.0. (2017). Retrieved September 16, 2017 from <http://devsmart.jd.com/dev/apiDocDir>
- [2] 2017. Linux Xtensa. (2017). Retrieved September 16, 2017 from <http://www.linux-xtensa.org/>
- [3] 2017. Qualcomm QCA4010 SoC. (2017). Retrieved September 16, 2017 from <https://www.qualcomm.com/products/qca4010>
- [4] Hossein Fereidooni, Jiska Classen, Tom Spink, Paul Patras, Markus Miettinen, Ahmad-Reza Sadeghi, Matthias Hollick, and Mauro Conti. 2017. Breaking Fitness Records without Moving: Reverse Engineering and Spoofing Fitbit. *arXiv preprint arXiv:1706.09165* (2017).
- [5] Earlene Fernandes, Jaeyeon Jung, and Atul Prakash. 2016. Security Analysis of Emerging Smart Home Applications. In *Proceedings of the 37th IEEE Symposium on Security and Privacy (SP)*.
- [6] Rohit Goyal, Nicola Dragoni, and Angelo Spognardi. 2016. Mind the Tracker You Wear: A Security Analysis of Wearable Health Trackers. In *Proceedings of the 31st Annual ACM Symposium on Applied Computing (SAC)*.
- [7] Network Working Group Internet-Draft. 2017. Secure IoT Bootstrapping: A Survey. (2017). Retrieved September 16, 2017 from <https://tools.ietf.org/html/draft-sarikaya-t2trg-sbootstrapping-03>
- [8] Eyal Ronen, Adi Shamir, Achi-Or Weingarten, and Colin O'Flynn. 2017. IoT Goes Nuclear: Creating a ZigBee Chain Reaction. In *Proceedings of the 38th IEEE Symposium on Security and Privacy (SP)*.
- [9] Veracode. 2015. The Internet of Things: Security Research Study. (2015). Retrieved September 16, 2017 from <https://www.veracode.com/sites/default/files/Resources/Whitepapers/internet-of-things-whitepaper.pdf>
- [10] Rui Wang, Yuchen Zhou, Shuo Chen, Shaz Qadeer, David Evans, and Yuri Gurevich. 2013. Explicating SDKs: Uncovering Assumptions Underlying Secure Authentication and Authorization. In *Proceedings of the 22nd USENIX Security Symposium*.
- [11] Wenbo Yang, Yuanyuan Zhang, Juanru Li, Hui Liu, Qing Wang, Yueheng Zhang, and Dawu Gu. 2017. Show Me the Money! Finding Flawed Implementations of Third-party In-app Payment in Android Apps. (2017).