

# Internet of Things – or Internet of Threats?

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Date: 7/21/16

# Topics to be covered

- What is IoT?
- Examples in Eco/Green
- What are the Security Concerns?
- How can we address these Issues?
- Conclusions

# What is IoT?

[https://en.wikipedia.org/wiki/Internet\\_of\\_things](https://en.wikipedia.org/wiki/Internet_of_things)

And just the beginning of the problem: <https://www.shodan.io/>

## IoT in Transportation, Smart Homes, Cities, Health

- <https://iotworldevent.com/iot-channel/9-30am-beyond-the-hype-how-the-internet-of-things-is-poised-to-drive-business-and-societal-transformation-on-a-global-scale/>

# Security Concerns, Risks and Threats in IoT

- <https://iotworldevent.com/iot-channel/dr-robert-griffin/>
- <http://arstechnica.com/security/2016/01/how-to-search-the-internet-of-things-for-photos-of-sleeping-babies/?comments=1>
- [https://en.wikipedia.org/wiki/Internet\\_of\\_things#Criticism\\_and\\_controversies](https://en.wikipedia.org/wiki/Internet_of_things#Criticism_and_controversies)
- <https://securelist.com/analysis/publications/72595/surviving-in-an-iot-enabled-world/> - Kaspersky

# How do we address these Security Concerns?

- IoT\_Poses\_New\_Problems\_for\_Developers
- And more detail: SecureRF Sensors Expo Slides
- May the Force be with Us?  
[https://www.youtube.com/watch?v=\\_\\_vQL\\_nhBQY](https://www.youtube.com/watch?v=__vQL_nhBQY)

# Conclusion

- Awareness
- Interfaces need to be not only more user-friendly but also better integrated
- Design for "anarchic scalability" - selectively constraining physical systems to allow for all management regimes without risking physical failure.

# Questions?

- Answers?