How does your Wifi toaster impact international security?

– Jan-Peter Kleinhans –
Project Director IoT Security
Everything is a computer...

DefendTex Drone-40

Secure Liberty 100

Charlie Miller, Chris Valasek (Jeep Cherokee)

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... and computers are COMPLEX.
Complexity is the enemy of security.

- increased **attack surface**
- higher **interdependencies**
- cascading damages **highly likely**
- highly complex **risk assessment**
It's NOT about the security of a THING.
Keeping a hyperconnected society safe is a shared responsibility.
Q: Can we trust that everybody is doing the right thing?
A: Of course not.
Key challenges when everything is a computer:

- How to assess trustworthiness of device/vendor/operator?
- How to identify interdependencies & assess risk?
- Can we afford non-digital fail-safes / fall-backs?
- Forward-looking vs retrospective measures?
Mark Cancian, 2018  
**Coping with Surprise in Great Power Conflicts**  
[csis.org/analysis/coping-surprise-great-power-conflicts](csis.org/analysis/coping-surprise-great-power-conflicts)  
Page 109, Vignette #4, "Assassin's Mace"

Frank Blazich, 2019  
**In the Era of Electronic Warfare, Bring Back Pigeons**  