

draft-ietf-iotops-security- survey-00

ietf 117

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Motivation

- Suppose...
 - You're working for a company that makes
 - Medical devices
 - SCADA systems
 - Industrial Robots
 - Etc...
 - And it needs to be network-connected.
 - Your latest client tells you that they require their devices to adhere to...
 - ENISA Baseline Security Recommendations for IoT
 - NIST 8259A - IoT Device Cybersecurity Capability Core Baseline
 - Etc...
 - Now what?

Motivation, Cont'd

- Requirements documents don't tell you **how** to implement them
- The IETF doesn't have a landing pad document for implementing secure IoT devices
- The discovery process for finding the requisite standards is complicated at best.
- So what do you do?
 - A common choice is to adopt an IoT OS
 - How can you be sure it covers all the requirements?

Summary

- Maps from security requirements in existing standards to IETF and related technologies
- Provides implementors with a starting place for IoT security
- Serves three purposes:
 1. Directs implementors towards standards-based solutions to security requirements
 2. Helps make implementors aware of potential security problems that they may not have considered
 3. Maps security requirements between different requirements documents
 - Oops. I didn't mean to do that.

Current Status

- Two sets of security requirements already covered:
 - ENISA Baseline Security Recommendations for IoT
 - NIST IoT Device Cybersecurity Capability Core Baseline
- WG asked NOT to have one mapping draft per security requirements document
 - Therefore, this will keep growing.
- Co-Authors needed
- Reviewers needed
- Next step is to add ETSI's "Cyber Security for Consumer Internet of Things: Baseline Requirements"

Questions?

- Why isn't my favorite set of requirements covered?
 - Because you're not a co-author.
 - Yet.
 - Join me!
- What does this draft need for WGLC?