

*The NTIA IoT Security
Upgradability and Patching*

**Existing Standards, Tools and Initiatives Working Group
WG1**



Scope of WG1 Efforts

- The working group is researching and reviewing existing IoT security standards and initiatives as they apply to Security Patching and Upgradability of deployed IoT devices and infrastructure
- Purpose to assure the overall NTIA IoT effort is not duplicating existing work
- Identify needs of other working groups through our research
- Globally focused effort
- Deployed tools vendors or service providers may be using today
- Looking for what exists from a standards and best practice perspective.



Proposed Deliverables

- **Catalog of Existing IoT Security Standards (Public)**
 - Proposing internal review draft later April
- **Research summary for NTIA Working Group usage (Internal)**
 - Proposing internal review draft early May
 - What we have found
- **Discussion in progress as to the needs and value of a public summary**



Catalog Entry Description

Organization:

Organizational URL:

Organizational Summary:

Documents:

Document Title:

Summary:

Document URL:

Published Date:

Document Version:

Domain of applicability:

Reference Category:

Useful sections:

Related Organizations:

Additional Notes:

NTIA WG Relevance

NTIA WG owner:

Potentially multiple documents listed

Specific Document Information



Initially Targeted Efforts

- **Online Trust Alliance**
- **Organization: Industrial Internet Consortium (IIC)**
- **Open Connectivity Foundation**
- **National Institute of Standards and Technology**
- **IEEE Internet of Things**
- **Alliance for Internet of Things Innovation**
- **International Organization for Standardization (ISO) IoT Standards**
- **Industrial Automation and Control System Security**
- **Open Web Application Security Project**
- **Cloud Security Alliance**
- **Object Management Group**
- **Internet Engineering Task Force (IETF)**
- **European Telecommunications Standards Institute (ETSI)**
- **Thread Group**
- **oneM2M**
- **3rd Generation Partnership Project (3GPP)**
- **ITU-T SG20**
- **IoT Security Foundation**
- **Internet of Things Consortium**
- **Cloud Standards Customer Council (CSCC)**
- **Smart Grid Interoperability Panel (SGIP)**
- **Groupe Spécial Mobile Association (GSMA)**
- **US Department of Homeland Security (DHS)**
- **Open Mobile Alliance (OMA)**
- **Underwriters Laboratories (UL)**
- **U.S. Food and Drug Administration (FDA)**
- **OpenFog Consortium**
- **Industrie 4.0**
- **North American Electric Reliability Corp**



Questions?

Want to help?

- **WG1 Mailing List:** ntia-iot-wg1@googlegroups.com
- **WG1 Virtual Meeting frequency:** Every two weeks