

# Breaking Down the IIoT Cyber Labeling Effort for US Cyber Trust Mark Applied to Smart Meters and Solar Inverters

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**Proposed Length:** 30 minutes

**Abstract Body:** IoT devices were once an edge of technology, found only in the homes of the techy savvy individuals. Today, IoT devices have permeated into electronics, appliances, and consumer products. Most homes have an IoT device whether a smart TV or a voice assistant device like Amazon Alexa or Google Home. These devices, while convenient and entertaining, bring security concerns associated with the increased number of devices connected to one's home network.

A July 2023 press release from the White House announced a new Cybersecurity Labeling Program for Smart Devices. In this release, the Biden-Harris administration outlines the plan for the FCC's proposed U.S. Cyber Trust Mark to be incorporated into this plan to strengthen cybersecurity and improve privacy for individuals utilizing IoT devices in their home.

In support of this effort, over the course of the last year, a team of researchers, engineers, and analysts from six DOE National Laboratories have been investigating the applicability of a labeling program applied to IIoT. This research will be particularly pertinent to energy sector OEMs who manufacture IIoT products and end-users of these products, including both energy sector asset owners and home enthusiasts.

The intent of a cybersecurity label applied to IIoT is to provide information that could inform consumer choice and awareness when purchasing, installing, and operating internet connected energy devices. In this presentation, we aim to break down the following components of our research process:

- Research performed to understand existing standards applicable to a label for consumer-facing energy infrastructure along with voluntary input from vendor partners
- Development of initial list of proposed label elements
- Receipt of feedback through stakeholder workshops and
- Government coordination with key stakeholder offices including NIST, FCC, and SETO
- Receipt of public feedback and incorporation into our recommendations
- Ongoing process of revising the proposed label elements to better accommodate public feedback and vendor feedback – close alignment of initial label elements with NIST IR 8259 series
- Considerations taken during design and development of our recommendations
- Deep dive into the proposed recommendations to be delivered (*the final report is still in progress but will be complete by end of FY24*).