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https://www.wsj.com/articles/imagine-a-nutrition-labelfor-cybersecurity-11607436000

## JOURNAL REPORTS: TECHNOLOGY

# Imagine a Nutrition Label—for Cybersecurity

As the Internet-of-Things proliferates, consumers want to know how their data will be used by the makers of devices—before they buy them



Smart refrigerators are among the connected devices that could be candidates for a data-privacy label, researchers say. PHOTO: JAE C. HONG/ASSOCIATED PRESS

*By Cheryl Winokur Munk* Dec. 8, 2020 9:00 am ET



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Your milk and orange juice have nutrition labels. Soon your refrigerator and coffee maker could, too.

For years, consumer privacy advocates have pushed the idea of so-called nutrition labels for devices. Instead of telling consumers how much vitamin B or C a product has, these labels would tell the prospective purchasers how their data will be used and by whom.

Researchers from Carnegie Mellon University's CyLab Security and Privacy Institute are floating a working prototype of how such a label could look. They're providing their label —vetted by researchers and numerous privacy experts—free of charge to Internet-of-Things, or IoT, device makers, standards organizations and others. Discussions for adoption are still in the early stages. But advocates hope device makers will adopt this

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type of label, or that organizations such as Underwriters Laboratories, an independent safety-testing and certification company, or Consumer Reports will use at least portions of the label in their review processes, says Lorrie Cranor, the director and Bosch distinguished professor in security and privacy technologies at CyLab.

The label is designed to go on a product's packaging or on the websites where the devices are sold. Products under consideration for carrying the label could include any smart device that is connected to the internet—including security cameras, refrigerators, speakers, home controllers, doorbells, toothbrushes, thermostats, light switches, smart plugs and much more, says Dr. Cranor, who is also a professor of computer science and a professor of engineering and public policy at Carnegie Mellon.

# SHARE YOUR THOUGHTS

What data-privacy information would you like to know when you buy a smart appliance? Join the conversation below.

The idea of protecting data privacy becomes more of an issue as more products connect to the internet. On Dec. 8, <u>Apple</u> Inc. began requiring app developers to provide information about their applications' privacy practices before submitting new apps and app updates to the App Store. What's more, consumer organizations are increasingly incorporating data privacy into their ratings, while some states have enacted, or are considering, privacy legislation. The Federal Trade Commission, which also has raised the concept of a nutrition label for privacy, says it continues to support the efforts of industry groups in this area.

Here's a closer look at the Carnegie Mellon label.

#### 12/8/2020

# A Cyber-Label Guide

Privacy experts are floating a 'nutrition label' for Internet-connected devices. These labels could help consumers understand devices' data-collection and security practices. Below is a proposed cyber label for a fictional device, a smart doorbell. Here's what it tells consumers:





### **Data Practices**

Outlines four mechanisms the devices could use for data collection—video, audio, physiological and location. Highlights what the collected data is being used for, how and where it is stored, and whether the stored data is anonymous or is identifiable. Also illustrates how and with whom customer data is shared or sold, along with other miscellaneous data the device collects. Other data collection is mentioned here and detailed at the link and QR code.



Overview

Provides basic product information including device name, version number and where it was manufactured.



## **Security Mechanisms**

Gives consumers information about the device's security, such as whether updates are automatic or manual, and how users can gain access to the device such as through a manufacturer-set password that can be changed by the user. Consumers can also see whether multiple account users are allowed and if there's an option for multifactor authentication or biometric login.



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**More Information** 

The link and QR code offer a more detailed list of device-specific security and privacy practices, including





hardware safety, software safety, personal safety and encryption and key

management.

Source: WSJ reporting

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