The Internet of Things
And How It Relates to Your Privacy

Miguel A. Calles, M.B.A.
SENIOR PRODUCT OWNER
VeriToll, LLC
Questions You Might Have Asked Siri & Alexa

Alexa, how are you?

Have you ever tried to write a poem, but it somehow always turns out bad? That’s how I’m feeling.

Alexa, are you my friend?

I’m happy to be your friend.
Questions You Might Have Asked Siri & Alexa

Hey Siri, what is the meaning to life, the universe and everything?

42

Alexa, what is black and white and red all over?

A mime at a crime scene.
Hey Siri, blue pill or red pill?

Oh, wait. I know this one: There is no spoon.

Alexa, can you pass the Turing test?

I don’t need to pass that. I’m not pretending to be human.
Questions You Might Have Asked Siri & Alexa

Hey Siri, take out the trash.

That doesn’t sound good.

Take out the trash.

Ok, I set a reminder.
Questions You Might Have Asked Siri & Alexa

Alexa, turn on the microwave.

I didn’t find any smart home devices under Miguel’s account.

Hey Siri, turn on the TV.

It doesn’t look like you’ve setup any HomeKit accessories.
Questions You Might Have Asked Siri & Alexa

Alexa, can I tell you a secret?
Tell me anything you’re comfortable me knowing.

Hey Siri, can I tell you a secret?
Yes
Questions You Might Have Asked Siri & Alexa

Alexa, are you always listening?

Amazon takes privacy seriously. For more information and to view Amazon’s privacy notice, visit the help section of your Alexa app.
Questions You Might Have Asked Siri & Alexa

Hey Siri, are you always listening?

I respect your privacy, and only listen when you’re talking to me.

You can learn about Apple’s approach to privacy on Apple.com.
Smart Devices Might Be Listening

Apple’s hired contractors are listening to your recorded Siri conversations, too

Just like Alexa and Google Assistant

By Chaim Gartenberg | @cgartenberg | Jul 26, 2019, 4:00pm EDT

Google listens to your confidential conversations: Reasons why big techs can’t be trusted

Google admits that its employees listen to private recordings for customer via Google Assistant that ideally are not meant to be recorded.

The Switch

An Amazon Echo recorded a family’s conversation, then sent it to a random person in their contacts, report says

By Hamza Shaban
May 24, 2018

Mattel Gadget Listens to Babies, Setting Off Privacy Alarms

By Todd Shields
September 29, 2017, 1:00 AM PDT
Updated on September 29, 2017, 7:10 AM PDT
Smart Devices Are Used A Lot

11.1 Billion Mobile Phones & Computers
12.7 Billion by 2025

8.3 Billion Internet of Things (IoT) Devices
21.5 Billion by 2025
What Are Internet of Things (IoT)?
Why Use IoT?

- Convenience
- Automation
- Data Analytics
- Monitoring
IoT Applications

- Environment Monitoring
- Energy Management
- Smart Factories
- Transportation and Logistics
- Human Health Monitoring
- Business Automation
- Smart Homes and Cities
IoT Risks and Concerns

- Cyber Attacks
- Privacy
- Physical Security
- Maintainability
- Data Protection
What You Can Do To Protect Yourself

Limit which rooms have smart devices.

Use a guest (separate) network for IoT devices.

Review every device setting.

Disable always listening/recording mode.

Change default passwords.

Keep your devices up-to-date.
About VERITOLL, LLC
The FIRST Tolling as a Service™ company

CrowdToll
Crowdsourced image review.

AuditToll
Crowdsourced testing.

Connect With Us! info@veritoll.com

© 2019 VeriToll, LLC. All rights reserved.
About MIGUEL A. CALLES

- Bachelor of Sciences from Massachusetts Institute of Technology
- Master of Business Administration from University of Florida
- Certified cybersecurity engineer (CSA CCSK, CompTIA A+)
- Writer for Secjuice.com cybersecurity blog
- Over 20 years of combined experience in the defense industry, systems engineering, web development, and cybersecurity
- Contact: mcalles@veritoll.com or https://www.linkedin.com/in/miguel-a-calles-mba