# FOCUS ON RESOLVING INTEROPERABILITY AND CYBERSECURITY ISSUES

## For IOT-Enabled Sensor Devices

**ieeesa.io/sensorsrt**

◈**IEEE**

## THE IEEE SA SENSORS ROUNDTABLE EVENT IS NOT A CONFERENCE!

Internet of Things (IoT) sensors have experienced explosive growth during the last decade and are poised for continued mass-scale adoption in smart cities, industrial IoT, healthcare, and the automotive industry, including the oncoming autonomous vehicles markets. The explosive growth has exposed issues that are beginning to plague the industry.

Network interoperability and cybersecurity are the two most important issues consistently identified in industry surveys and market reports. These issues represent the biggest impediments to market growth—adding implementation costs, impeding system-wide cybersecurity solutions, and leading to closed-loop systems that hinder free-market competition.  Another major concern is that devices with IoT sensors are not positioned to take full advantage of the IoT.

In the effort to address these challenges, IEEE SA is working with the sensors industry and other stakeholders to explore potential solutions.

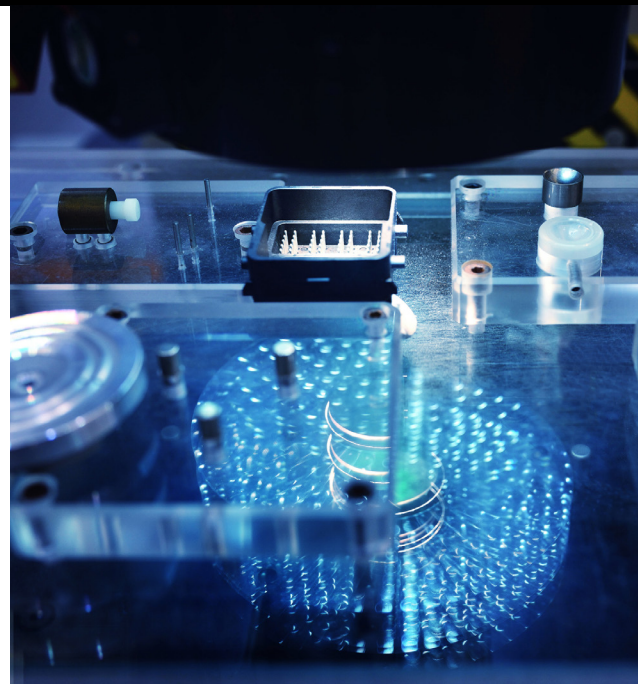## WHAT IS THE INDUSTRY ROUNDTABLE MEETING?

### The IEEE Roundtable Meeting

- This is an in-person meeting where industry, government agencies and other stakeholders, present and discuss possible solutions
- The roundtable is co-chaired by: Sridhar Kowdley, US Department of Homeland Security (DHS) and Bruce Hecht, Massachusetts Institute of Technology (MIT), supported by an organizing committee made up of volunteers from multiple industries
- Roundtable keynote speaker: Sanjay Sarma (MIT, Open Learning)

### Purpose and Outcome

- Discuss industry needs and recommendations
- The discussion will be guided by a white paper, identifying key interoperability challenges, cybersecurity issues, and recommended resolutions
- Define a path to interoperability and cybersecurity for IoT-enabled sensors

### Major topics that will be discussed include:

- Interoperability, cybersecurity, and conformity assessment
- Implementations of emerging sensor standards
- How to restore users' trust in product specifications

## EVENT DETAILS

### Date and Location

14-15 September 2022
Mark your calendar

### Location

AT&T Hotel and Conference Center
Austin, TX

### Register your interest in participating

ieeesa.io/sensorsrt

## IEEE

## EACH COMPANY MAY REGISTER TWO PARTICIPANTS IN SENIOR POSITIONS, FOLLOWING THE BELOW GUIDELINES:

- Participants should have expertise in cybersecurity and/or interoperability

  or

- A business executive may attend and bring a technical representative

## WHITE PAPER CONTENT AREAS THAT WILL GUIDE THE DISCUSSION:

- Critical Success Factors for IEEE Sensors Program
- Key Interoperability Issues
- Key Cybersecurity Issues and Vulnerabilities Sensor Standards
- IEEE Sensor Standards
- Common Deployment Models for IoT Sensors
- Reference Sensor Architecture Framework
- Reference Architecture Components
- Interoperability Requirements
- Cybersecurity Requirements
- Supplemental IEEE Services
- Plans to mitigate Interoperability and Cybersecurity Issues
- Recommendations
- Summary and Call to Action

## REGISTRATION DETAILS

- Register your interest in participating in the roundtable: ieeesa.io/sensorsrt
- Check back for updates periodically
- If selected, you will receive a white paper to review the issues, and recommendations listed
- Prioritize issues and recommendations, then return them to IEEE
- You may then add in your commentary
- IEEE will anonymize them and share them at the roundtable
- You and other roundtable participants will agree on priorities. They will serve as a base for IEEE to develop an industry agreed plan for sensor interoperability and cybersecurity

## ABOUT THE IEEE STANDARDS ASSOCIATION

IEEE Standards Association (IEEE SA) is a collaborative organization where innovators raise the world's standards for technology. IEEE SA provides a globally open, consensus-building environment and platform that empowers people to work together in the development of leading-edge, market-relevant technology standards, and industry solutions shaping a better, safer and sustainable world. **For more information, visit standards.ieee.org.**

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