

ARTS22 Breakout Session Title:
154-Cybersecurity Hot Topics

Session Contact/Organizers:

- Dr. Jonathan Petit, Director Engineering, Qualcomm Technologies, Inc.
- Danielle Chou, USDOT
- Kristin White, ITS America
- Tiffany Hall, USDOT
- Robert Heilman, USDOT

Session Description

Cybersecurity is a pillar of Connected Automated Vehicles. In this session, you will learn from experts about the latest development in *Securing Artificial Intelligence* and *Sensor security*. You will also have the opportunity to discuss about cybersecurity issues and solutions transversal to other transportation domains. You will leave the session with a deeper understanding of the current security solutions, and the open challenges transportation industry is facing.

Goals/Objectives/Outputs

- Learn about recent results in CAV security
- Understand the standardization and regulations landscape worldwide
- Discuss open challenges and lay out an action plan
- Build an ecosystem map of CAV cybersecurity

Agenda

10 mins Introduction

Description: Brief overview of what happened since 2020 in the world of CAV security. Setting up the stage and goals of this session.

Presenter: Jonathan Petit, Director Engineering, Qualcomm

20 mins Securing Artificial Intelligence

Description: Hot topics in AI security and latest research results

Presenter: *Alfred Chen, University of California/Irvine*

20 mins CAV Sensors security

Description: Hot topics in sensors security and latest research results

Presenter: *Ryan Gerdes, Virginia Tech*

30 mins Panel discussion

Moderator: Danielle Chou

Panelist:

- Brad Potteiger, Johns Hopkins Applied Physics Lab
- Katie Seckman, Executive Director, Grayline Group

10 mins Discussion / Q&A

Moderator: Kristin White

10 mins Break

45 mins Roundtables

Description: Join one of the presenters in an interactive discussion.

10 mins Break**20 mins Breakout report-outs**

Description: Each table summarizes their takeaways.

5 mins Closing and next steps

Presenter: Jonathan Petit, Qualcomm