Welcome

OmniAir Consortium April 30, 2024



OMNIAIR ECOSYSTEM:

Automotive OEMs

((ເ⇔າ)) OMNIAIR

- Tier One Suppliers
- Chipset & Technology
 Component Providers
- Cybersecurity
- Tolling Devices
- Systems Integrators
- Deploying Agencies
- Test Tools
- Test Labs

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V2X Devices

Research Institutes



OmniAir Certification Services

Standards ↔ **Requirements** ↔ **Regulatory** Working Groups \leftrightarrow Test Cases / Scopes \leftrightarrow Validation

Authorized Test Laboratory (OATL)



Device Certification

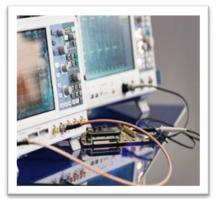


- Module (Global)
- LTE-V2X (C-V2X PC5)
 - DSRC
- **RFID SPD & MPD Tolling**

1) V2X Applications, 2) RSU Interface (1202v3 & 1218), 3) V2X Tolling (Road Usage Charging) In-works:

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Qualified Test Equipment (OQTE)



Bench & Mobile

- Qualified Bench & Field Equipment
- Test Reports



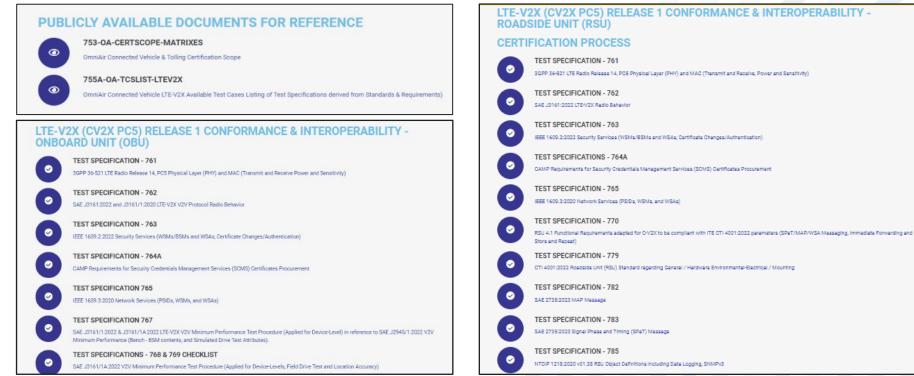
- **Open Road Overhead Gantry**
- Plaza (Low Speed / Gated)
- **Reference Device (ORD)**

Authorized Field Test Site (OAFTS)

- **Qualified Field Equipment**

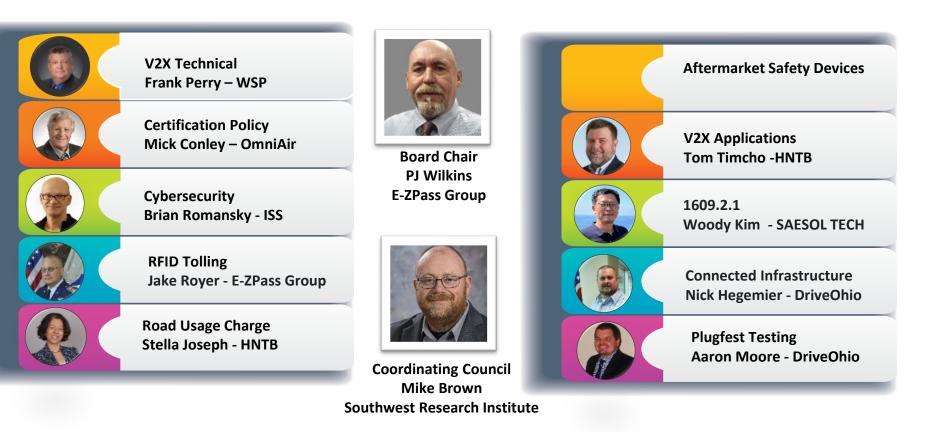


PUBLICLY AVAILABLE DOCUMENTS FOR REFERENCE



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Working Groups



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Plugfest Goals



Device Vendors

- Check their device certification readiness
- Test their device interoperability capabilities
- Familiarize themselves with the test specifications
- Work with Authorized Test Labs



Test Tool Providers

- Gain access to a mix of devices such as OBU, RSU, Modules
- Test out new test case implementations
- Work with Authorized Test Labs



Authorize Test Labs

- Work with vendors, potential customers
- Work with early versions of the Test Tools
- Training on new test specifications



OmniAir

- Help device vendors prepare for certification
- Validate new test cases
- Train Authorized Test Labs

OMNIAIR PLUGFEST AT MCITY ANN ARBOR, MI MAY 13-17, 2024

CONFIRMED



PARTICIPANTS

Hosted by



Bench and Field SCMS – Security







What to Expect for the Week

1. Testing

2. Connected Mobility Workshop with UMTRI

3. USDOT Listening Session

• 2nd Report & Order















Applications & Demonstration Areas

Application Locations

Freeway: OBU vendors will work together as Hosts and Remote devices

- **EEBL**: Based on previous Plugfest
- FCW: Based on previous Plugfest
- Blind Spot: Based on previous Plugfest

Intersections

- 1) Red Light Violation Warning and Vehicle Preemption: (Intersection 2571)
- 2) Pedestrian Conflict Warning/Wrong Way Driver: (Intersection 2570)
- 3) Lane Closure Warning (from 2022 Plugfest): (Intersection 2577)
- 4) Open: (Intersection 2572)
- 5) Open (Intersection 2573)
- 6) CAV/USDOT MAP Training/RSM CSW: (Intersection 2576)
- 7) LTA/IMA: (North of Intersection 2572)









Connected Mobility Workshop

Wednesday, May 15

North Campus Research Complex







Accelerating V2X Deployments

Guest Speakers



Advancing Safety, Security, and Compliance

Guest Speakers



PLUGFEST

OMNIAIR PLUGFEST AT MCITY ANN ARBOR, MI MAY 13-17, 2024



Hosted by UNTRI TRANSPORTATION RESEARCH INSTITUTE UNIVERSITY OF MICHIGAN

OMNIAIR PLUGFEST AT MCITY MAY 13-17

V2X Device & Test Station Registration

Welcome

The OmniAir Plugfest at Mcity is hosted in partnership with the University of Michigan Transportation Research Institute (UMTRI) the week of May 13-17, 2024. Mcity is the world's first purpose-built proving ground for testing the performance and safety of connected and automated vehicles and technologies under controlled and realistic conditions.

OmniAir Plugfests are the premiere testing event for connected vehicles.

This readiness event will include conformance, interoperability and security, testing for LTE-V2X radios and modules in laboratory and field environments. This year, we will also offer both simulation and field testing for V2X safety applications and use cases.

Enter discount code "Lastchance" by Friday, March 31, to receive \$1,000 off! Must Purchase online!

V2X Testing Overview - In-person Only

Bench and Field Testing at Mcity

Mcity Test Facility

Security Certificates

Testing Elements/Test Cases

OmniAir TCI Instructions

Hotel Accommodations

Shipping Instructions





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