



OmniAir

C O N S O R T I U M

CONNECTED VEHICLE

INTEROPERABLE

CERTIFICATION



TOLLING

USDOT CV Plugfest
May 8, 2017

ROADMAP



- Who we are
- What we do
- OmniAir certification process
- How to get involved
- Questions

OMNIAIR CONSORTIUM

OmniAir is a leading industry association promoting interoperability for connected vehicles, ITS, and transportation payment systems.

Members collaborate to develop policies, procedures, and technical requirements for certification programs.

Tolling: EZ Pass, E-470, North Texas Toll Authority

Agencies: MTA, MTC, PANYNJ

Engineering: HNTB, ATKINS

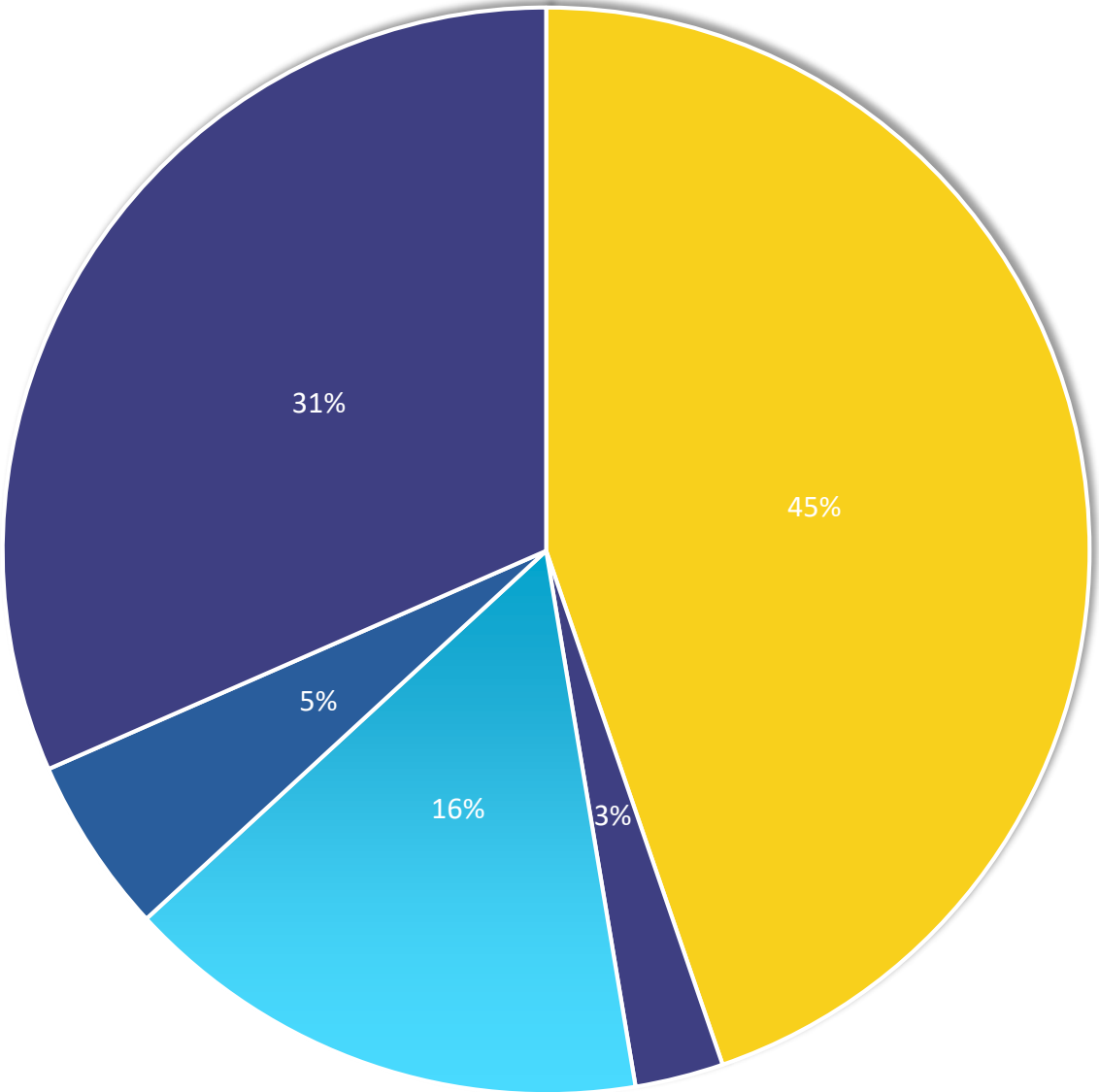
Manufacturers: Savari, Panasonic, Lear

Labs: MET, UL, 7Layers, Intertek, SGS

Software: Integrity Security/Green Hills



Membership by Industry



- Device and Software Manufacturing
- Research Intuitions
- Transportation Agencies and Toll Authorities
- Transportation Engineering and Consulting
- Test Labs



ACTIVITIES

- Collaborative, member-driven organization
- Certification Working Group
- Technical Working Group
- Emerging Technologies Working Group

- Device Testing and Certification
 - National Toll Interoperability
 - 6C for Tolling
 - Connected Vehicle

- Regulatory and Policy
 - FCC Spectrum
 - NHTSA V2V NPRM
 - Automotive Cybersecurity Luncheon



CERTIFICATION PROCESS

1. APPLICANT CONTACTS OMNIAIR

- Applicant contacts OmniAir to request certification of their device and provides information on their IUT
- OmniAir verifies that applicant is member in good standing



2. TEST LAB CERTIFICATION TESTING

- Applicant contacts Test Lab to request certification of their device, and provides information on their IUT and schedules Certification testing
- Test Lab performs Certification testing on submitted IUT
- Test Lab submit Test Report to Applicant and OmniAir



3. OMNIAIR ISSUES CERTIFICATE TO APPLICANT

- OmniAir decides on certification based on submitted reports
- Award applicant the OMNIAIR certification mark and publishes report on its website

CVCA CONFORMANCE REQUIREMENTS FOR OMNIAIR CERTIFICATION

1. V2V DEVICES

- Capable of transmitting BSM messages according to the SEA J2945/1 standard
- Capable of receiving BSM messages according to the SEA J2945/1 standard
- Supports SEA J2945/1 requirements identified by “Required for V2V”

2. V2V & SCMS DEVICES

- Capable of transmitting BSM messages according to the SEA J2945/1 standard
- Capable of receiving BSM messages according to the SEA J2945/1 standard
- Supports SEA J2945/1 requirements identified by “Required for V2V” & “Required for SCMS”

3. CV PILOTS OBU

- Device Profile “V2V+SCMS” capabilities
- Capable of receiving WSA, SPAT, TIM and MAP messages

4. CV PILOTS RSU

- Supports requirements defined in the RUS 4.1 specification
- Capable of sending WSA messages
- Capable of supporting IPv6-based links with OBU devices
- Capable of transmitting SPAT, MSP and TIM messages



OmniAir
C O N S O R T I U M

CERTIFICATION TIMELINE

Connected Vehicle Device Certification

USDOT
Next Gen Phase I

Certification & Technical
Working Group Develop
CVCA, requirements,
policies

Launch OmniAir CV
Certification Program.

2016

Q1,2
2017

Q1,2
2017

Q2 2017

Q3
2017

USDOT Next Gen. Phase II

Begin Authorized
OmniAir Test Lab
Accreditation



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