CAT Coalition Technical Resources Working Group Quarterly Meeting

August 14, 2019

11:00-12:30 (Eastern)

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Agenda

11:00-11:05	Welcome and Introductions
11:05-11:25	Outreach and Knowledge Transfer, Resources Recap, CAT Coalition Updates
11:25-11:35	Partner Reports from USDOT, ITSA, ITE
11:35-11:55	CV Deployment Environment Discussion
11:55-12:15	C-V2X Overview
12:15-12:20	Next Webinar, Member Updates, Closing

Outreach and Knowledge Transfer, Resources Recap, CAT Coalition Updates

Jeremy Schroeder and Tom Kern

Ongoing Commitment to Outreach & Knowledge Transfer

- Suggestions from WG Members on Ways to Enhance Impact:
  - Proposed new WG Members
  - Communications with/Involvement in other initiatives
  - Knowledge Resources to include on the CAT Coalition Website

Resources WG Recap

- Update on NTCIP 1218
- Discussion of Turner-Fairbank activities
  - Updates on MAP Tool
  - V2I Hub now V2X Hub
  - RSU Specification v 4.1 to be updated
  - Technical Assistance Program for Early Deployers
- Introduced CV Deployment Environment resource
- Overview of V2I Benefit-Cost Assessment Tool developed by Volpe

Action Item for Everyone

- Share leads, links, or attachments of resources on:
  - SPaT deployment, related to the full V diagram
    - e.g. ConOps, Reqs, Test Plans, Procurement or bid documents with scope, specifications, or SOW for equipment, installation, support contractors, cost information, technical support, security details, project plans, network plans, or lessons learned
  - OBU deployment documentation for Connected Fleet Challenge
  - Cybersecurity and network security resources
  - New or planned SPaT deployments, or updates
- Contact Hannah Rakoff to test V2I BCA Tool

CAT Coalition Activities

- New webpage for CAT Coalition resources:
  - https://transportationops.org/CATCoalition/resources
- IOO/OEM Forum
  - RSZW-LC Infrastructure System ConOps https://transportationops.org/sites/transops/files/RSZW-LC%20Model%20ConOps%2005072019%20Ver%202.2.pdf
  - CAMP Software Toolchain, webinar, and lessons learned resource
  - Developing Clarifications for Consistent Implementation (CCI) for SPaT

CAT Coalition Activities

- Strategic Initiatives WG
  - Connected Fleet Challenge webinars and resources
- SPaT Challenge
  - Updating SPaT map and gathering lessons learned
- Policy, Legislative, and Regulatory WG
  - https://transportationops.org/CATCoalition/clearinghouse-cat-policy-frameworks
- Infrastructure-Industry WG
  - Developing Communications 101 resource

Partner Reports from USDOT, ITSA, ITE

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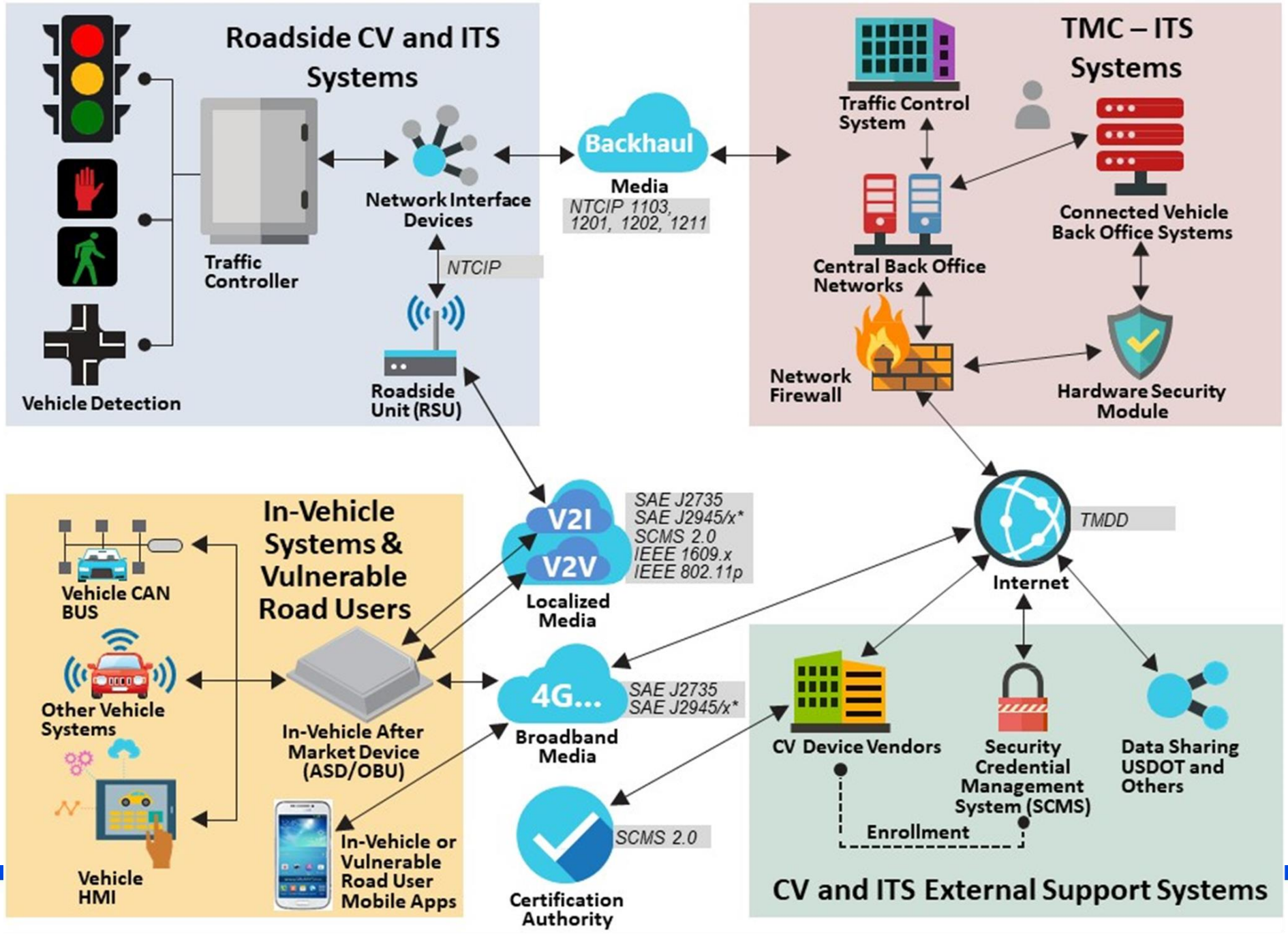
CV Deployment Environment Discussion

Jeremy Schroeder, Athey Creek

CV Deployment Environment

- Resource Objective
  - Provide a full-picture, high-level overview of the CV environment.
  - Leverage experiences from CV deployers to document what is needed for an interoperable CV deployment:
    - Systems, including lifecycle considerations
    - Connections
    - General considerations
    - Reference to standards and other resources, where possible



*SAE J2945/1 and SAE J2945/2 are for V2V communications; SAE 2945/9 is for communications with vulnerable road users; SAE J2945/x includes cross-cutting information for communications

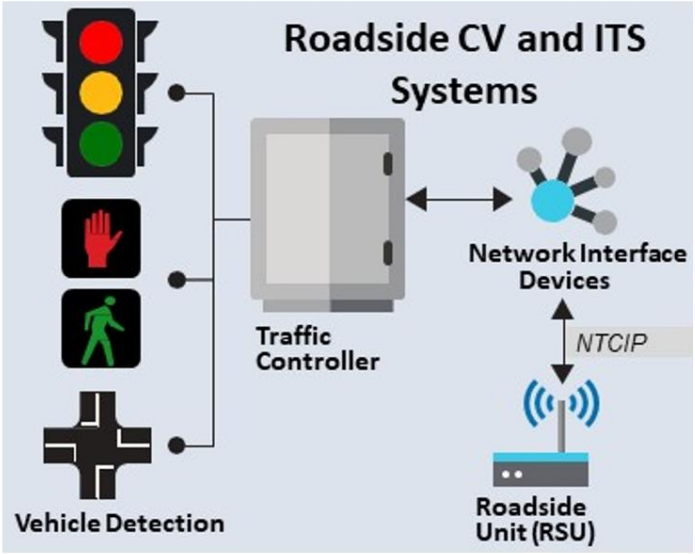
CV Deployment Environment

Roadside CV and ITS Systems

General description of roadside CV and ITS systems and components.

Specific considerations:

- Software upgrades
- Relevant standards
  - NTCIP 1202v3
  - RSU Specification v4.1
- Security
- Privacy considerations
- Over the air (OTA) considerations
- Channel utilization
- Network interface
- Installation and mounting considerations
- Maintenance considerations
- Provision of MAP message
- Data collection
- Location accuracy
- …



CV Deployment Environment

- Next steps
  - Identify volunteers to begin filling in information and expand resource

C-V2X Overview

Alan Clelland, Applied Information and Jim Misener, Qualcomm

Closing Remarks

Any deployment updates or lessons learned to share with the group?

Any other closing comments or questions?

Next Resources WG Meeting

November 13

11:00-12:30 (Eastern)