

Cooperative Automated Transportation Coalition Technical Resources Working Group Quarterly Meeting Summary

Wednesday, November 10, 2021 11:00 am - 12:30 pm Eastern Time

Action Items

- 1. Everyone: Share leads, links, or attachments of resources with Faisal or Jeremy on:
 - Suggestions from working group (WG) members on ways to enhance impact, including: 1)
 proposed new WG Members, 2) communications with/Involvement in other initiatives, and 3)
 knowledge resources to include on the CAT Coalition Website.
 - Resources or information to support SPaT and Connected Fleet deployments.

Meeting Summary

Ongoing Commitment to Outreach and Knowledge Transfer and Resources WG Recap

Resources WG members were reminded to provide suggestions for proposed new WG Members, share new information about communications with/involvement in other initiatives, and any knowledge resources to include on CAT Coalition website.

Recap of Topics Discussed During the Previous Webinar and Working Group Activities

Jeremy provided a brief update on the topics covered during the August webinar, as well as the accomplishments of this working group and interactions with other organizations over the last four years. All presentations and meeting summaries of previous meetings are available on the CAT Coalition Resources WG webpage: https://transportationops.org/CATCoalition/technical resources WG.

Plans for a CAT Coalition Compendium

Tom Kern described the accomplishments of all CAT Coalition WGs, which have resulted in 35 total products, which encompass new documents, technical input to other efforts, engagement, and support activities. A CAT Coalition Compendium is currently being drafted that summarizes the activities and impacts of the CAT Coalition. It will not simply be a combination of the products, but will also "weave" together a description of what was done; how it was done; why it was done; and how it is (and can be) used by the industry. It will also allow current and future working group chairs to understand what approaches have worked well (and which haven't) to support future activities of this and other groups. Spring 2022 is the target release date for this document.

Transitioning to C-V2X and FCC Licensing Process

This session included a presentation by Blaine Leonard on Utah deployment updates and the transition process, followed by a C-V2X Update by Jim Misener and John Kuzin. Blaine shared information about recent FCC rulings, what that means for agency deployments, and how Utah is responding. This information is summarized in an FAQ document entitled "Practical Considerations for Deployers of V2X Roadside Equipment" that is available at: https://transportationtechnology.utah.gov/what-were-learning. He described how Utah is making decisions to transition DSRC devices used in certain corridors based on various constraints, like funding, how the corridor is used, and the fact that DSRC and C-V2X are not compatible with one another. He also described the C-V2X licensing and waiver process. This information is available on his slides, which are posted on the Resources WG webpage.







John expanded on Blaine's comments regarding the FCC rules and timeline for transitioning use of the 5.9 GHz spectrum from DSRC. DSRC and C-V2X are effectively incompatible with one another and the FCC made a determination that it was prudent to allocate the spectrum to a single technology. The FCC Further Notice of Proposed Rulemaking (FNPRM) that was also issued in November 2020 asks a variety of questions for comment, including whether more spectrum should be allocated for this purpose in the future.

Partner Reports: US DOT, ITS America, and ITE

- CARMA Update. Pavle Bujanovic presented updates on the CARMA development activities. He described the work zone use case which was recently tested; there are videos that will be shared upon approval by FHWA public affairs. He also shared the traffic incident management use case that was developed that establishes new information from first responders regarding speed limit and the incident zone. A road weather management use case helps vehicles avoid particular areas that are impacted, for instance by flooding. A final use case involves a couple of platooning vehicles receiving a speed advisory from the CARMA cloud. Videos of the testing for these use cases will also be provided when they are approved.
- USDOT Updates. Deb Curtis provided the following updates via email that were shared with the WG:
 - The RSU Standard and Connected Intersections guidance are available:
 https://www.ite.org/technical-resources/standards/connected-intersections. Our next step is some baseline testing once we have devices that the manufacturer states are compliant with the new standard. We'll update the group when we have devices and testing begins.
 - We had a successful field test at TFHRC of the CARMA vehicles navigating a workzone in automated mode using maps created with the work zone map creation tool. The tool is available from the CAV Support Services at <u>CAVSupportServices@dot.gov</u> The software is open source and available to all and we have a few laptops/GPS set ups available for loan if you'd like to try it before you invest in your own equipment.
 - CAVe-in-a-box development continues. Our next steps will look at adding CDA features to the system. We have also developed a visualization tool that allows users to "see" the data flowing in the CAV eco-system. More info to come shortly on the tool but questions about CAVe-in-a-box in general can be directed to CAVSupportServices@dot.gov. Some CAVe-in-a-box systems will also be available for loan, but may currently be loaned out, as it's very popular right now.

Closing

This is the final Resources Working Group meeting that is planned for this phase of the CAT Coalition. Thank you to everyone for their contributions and participation.

Attendance

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5. April Wire april.wire@maricopa.gov

6. Barry Einsig beinsig@econolite.com7. Blaine Leonard bleonard@utah.gov

8. Bob Rausch robert.rausch@transcore.com

9. Brian Cronin brian.cronin@dot.gov

10. Carlos Alban calban@itsa.org







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52. Varsha Ramamurthy

53. Venkat Nallamothu



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