

Cooperative Automated Transportation (CAT) Coalition Strategic Initiatives Technical Working Group

March 22, 2018 Webinar
Notes and Summary of Discussions

Welcome

Greg Larson (Caltrans and Chair of the Strategic Initiatives Working Group) welcomed everyone to the call and noted that this is the first formal meeting of this working group. Phase 1 has ended, and Phase 2 of the V2I Deployment Coalition has begun.

Greg introduced Joe Averkamp as the group's co-chair. Joe commented that the group has accomplished some good things in Phase 1 and he is looking forward to seeing the activities the group takes on in Phase 2.

Approximately 35 members and guests of TWG 1 joined the webinar. A list of those in attendance is provided at the end of these notes. This list may not be comprehensive, as attendees may have joined late and were not identified on the webinar. Please contact Dean Deeter at deeter@acconsultants.org to be added to the list.

Update on the Overall V2I DC Phase 2

Greg reported that the number of working groups that existed in Phase 1 was reduced in Phase 2. In addition to this working group, there is also:

- The Resources Technical Working Group, chaired by Faisal Saleem; and
- The Peer Exchange and Outreach Working Group, chaired by Ed Seymour.

Kickoff meetings have been held with working group chairs and a formal coalition-wide email will be sent soon.

Overall Direction of this Working Group

Greg summarized the proposed focus areas of this working group to include:

- Continuing to support the SPaT Challenge, including resource development by the SPaT Resource Working Group (that is open to anyone to join);
- Initiating and advancing the Connected Fleet Challenge, an initiative to challenge fleet operators to equip at least one fleet vehicle with on-board units to communicate with intersection SPaT broadcasts;
- Sharing the outcomes of the IOO/OEM Forum with working group members to encourage their use and to seek input and feedback. Currently, the IOO/OEM Forum has completed a SPaT Challenge Verification Document that is available on the SPaT Challenge website.
- Tracking and reporting on V2I Deployment Planning and Status; and
- Additional topic areas introduced by the members.

Members did not express any concern with these topic areas. Greg reminded members that they are welcome to suggest topics areas at any time.

SPaT Challenge Update

Blaine Leonard reported on the status of the SPaT Challenge. A series of six webinars to talk about technical issues has been initiated. The first webinar occurred on March 6, 2018 and discussed a model concept of operations and requirements as well as costs, procurement, and corridor selection. A second webinar was held on March 20, 2018 and included creation of the SPaT message and a discussion of on-board units and vehicle-based systems, as well as an overview of the V2I Hub.

There is a SPaT Challenge Resource page at <https://transportationops.org/spatchallenge>. From this website there is a link to the webinar series that will provide dates, topics, and summary information for each of the six webinars in the series. Registration for future webinars and recordings of past webinars are also on the webinar series page. Upcoming webinars include:

- SPaT Challenge Design Considerations (Part 2) | April 17, 2018 2:00pm – 3:30pm ET
- SPaT Challenge: MAP Creator Tool | April 24, 2018 1:00pm – 2:30pm ET
- SPaT Challenge Design Considerations (Part 3) | May 15, 2018 2:00pm – 3:00pm ET
- SPaT Challenge Deployment & Validation | June 12, 2018 2:00pm – 3:00pm ET

Dean discussed the SPaT Challenge Verification / Validation document that is intended to support IOOs deploying SPaT broadcasts to ensure that they are compatible and meet the minimum requirements for on-board applications that may be released by automobile manufacturers. Feedback is accepted any time, however there is a plan to gather as much feedback as possible by April 6, 2018 and to send the assembled feedback to CAMP (the authors of the document). ***If any members have feedback on the SPaT Challenge Verification Document, they are encouraged to email the feedback to Dean Deeter before April 6.***

One new Spat Challenge related activity for this group may be to coordinate verification of SPaT deployments, share verification procedures and outcomes, and report on the outcomes of verification tests.

Connected Fleet Challenge

Mark Kopko presented information on the Connected Fleet Challenge. The idea is to expand on the SPaT Challenge and encourage fleet operators to deploy on-board units in at least one fleet vehicle to communicate with SPaT broadcasts. Every fleet operator would be challenged to equip one vehicle with an on-board unit to ensure proper transmission and receipt of SPaT messages. This could involve more than just DOTs. For example, transit fleets, Turnpike Authorities, emergency responders, and private freight fleets are some examples of the fleet operators that may be encouraged to deploy on-board units.

Dean suggested that FHWA's Every Day Counts – Weather Savvy Roads may have some resources that could be leveraged. Greg identified that a Connected Vehicle Pooled Fund Study project was recently completed that identified lessons learned that could help with issues such as the placement of equipment.

Greg recommended that the group create teams to move forward with the Connected Fleet Challenge. No one voiced a concern for undertaking this activity. It was agreed that the group would discuss this further during the April webinar.

V2I / DSRC Deployment Summary

Greg reported that a document describing a list of known locations where DSRC based V2I infrastructure deployments are either operational, underway, or planned and funded has been developed and was circulated with the webinar invite (also being circulated with this webinar summary). Greg asked members of this working group to review the document and use track changes to either add any additional deployments they know of or to correct any information as needed. Changes can be emailed to Dean Deeter (deeter@acconsultants.org).

The overall goal is to share a version of this document with the FCC to provide them with information about the DSRC activities underway in the United States. There was a suggestion that a member of the FCC be invited to be part of this working group. Gummada indicated that he could reach out to the FCC to see if they (or one of their consultants) can participate on this working group.

Upcoming Webinar Topics & Close

Webinars will continue to discuss SPaT activities, and to expand the concept of the Connected Fleet Challenge. **Greg will talk to Mark about putting teams together to get the resources needed to move forward with this initiative.** Additionally, outcomes of the IOO/OEM Working Group on Reduced Speed Zones and Lane Closures will be shared at an upcoming webinar.

The next TWG 1 meeting will be held at 2:00 PM Eastern on April 26, 2018.

TWG 1 March 22, 2018 Webinar Participants

- Greg Larson, Chair
- Joe Averkamp, Co-chair
- Kyle Arnold
- Stan Caldwell
- John Conrad
- Barry Einsig
- Dean Erickson
- Dominie Garcia
- Kyle Garrett
- Mohammed Hadi
- Jack Hall
- Ahmad Jawad
- Mark Kopko
- Christian Kulus
- Sean Laffey
- Greg Larson
- Blaine Leonard
- Jonathan Martinez
- Dave Miller
- Gummada Murthy
- Scott Nelson
- Jon Obenberger
- Jonathan Riehl
- Theresa Rohlfs
- Steve Sawyer
- Mike Shagrin
- Matt Smith
- Alvin Stamp
- Chris Stanley
- Daniel Worke
- Ken Yang
- Joey Yang
- Dean Deeter
- Jeremy Schroeder
- Matt Weatherford

