

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

April 26, 2018 Webinar
Notes and Summary of Discussions

Summary of Action Items

- *Dean to organize an initial call with the volunteers to work on the Connected Fleet Challenge Summary Document.*
- *Dean to contact those who volunteered to discuss Connected Fleet Challenge resource needs, conduct an initial call, and report back to this WG on the next webinar.*
- *Action: Greg to update members of the WG on progress towards an AASHTO Resolution on the next webinar.*
- *Members are encouraged to email Dean (deeter@acconsultants.org) if they are interested in participating in an initiative to help to coordinate SPaT deployment Verifications.*
- *Action: Dean to assemble a letter from Greg to the Ray Derr identifying all agencies currently involved in the SPaT Challenge.*

Welcome

Greg Larson (Caltrans and Chair of the Strategic Initiatives Working Group) welcomed everyone to the call.

Approximately 40 members and guests of the Strategic Initiatives WG 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 SPaT Challenge

Greg reported that the SPaT Challenge was a key initiative of this Working Group in Phase 1 of the V2I Deployment Coalition, and this WG will continue to support the initiative.

Blaine Leonard provided an overview of the SPaT Challenge. He noted that the Challenge now includes approximately 35 locations in 25 states that have accepted the SPaT Challenge and are either working towards deploying SPaT/MAP broadcasts or have completed deployment. The map tracking the system shows approximately 500 roadside units (RSUs) deployed, and another 2400 RSUs planned.

Blaine provided a recap of the four SPaT Challenge Webinars that have been conducted. The webinars are presenting technical aspects of SPaT/MAP deployments. Two webinars are remaining:

- 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

All webinars are being recorded, and the recordings are posted on the National Operations Center of Excellence (NOCoE) website.

Connected Fleet Challenge

Greg reminded members that during the March webinar, this WG agreed to initiate 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 with an on-board unit to ensure proper transmission of the Basic Safety Message (BSM) 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.

Greg indicated the initial actions needed are to develop a 2-page summary of the Connected Fleet Challenge, he noted that Mark Kopko (PennDOT) would lead a small Task Force to create this summary, but asked for a small number of volunteers to work with Mark to define this summary. He noted that Athey Creek staff would be available to capture the input of this group and prepare the document. Reza Karimvand and Joe Averkamp, both agreed to be part of this group. Barry Einsig offered one of his staff would also be part of this. **Action: Dean to organize an initial call with the volunteers to work on the Connected Fleet Challenge Summary Document.**

Greg noted that another early aspect of the Connected Fleet Challenge will be to work with AASHTO to prepare material to propose an AASHTO Resolution. Greg offered he would lead this effort and report back to the group. **Action: Greg to update members of the WG on progress towards an AASHTO Resolution on the next webinar.**

Greg noted that additional expertise will be needed from this working group to identify the resources needed and prepare the resource to support those who accept the challenge. Hideki Hada offered involvement in this group, and Barry Einsig offered someone from his group would participate. **Action: Dean to contact those who volunteered to discuss Connected Fleet Challenge resource needs, conduct an initial call, and report back to this WG on the next webinar.**

National Dialog on Highway Automation

John Corbin provided a summary of the planned National Dialog on Highway Automation, a series of meetings and workshops to engage a dialog throughout the industry. An initial webinar is planned for May 8th. A series of five workshops will occur in 2018 with the purpose of engaging and listening to the stakeholders.

Recent OEM Announcements

Greg noted that he believes the recent announcement from Toyota about equipping passenger vehicles in the United States with DSRC communications was a great advancement in the industry. Hideki Hada shared some background on the recent Toyota announcement and noted they have been using DSRC in

Japan since 2015. Other members voiced their support of the recent announcement by Toyota, and expressed interest in observing the impacts this announcement will have on the industry.

Possible Initiative – Coordinating SPaT Verifications

Greg introduced another possible initiative for this WG, to help coordinate the verification of SPaT deployments in response to the SPaT Challenge. Dean reminded members that the SPaT Challenge Verification document was an outcome of the IOO/OEM Forum and is available for all members to download on the SPaT Challenge Website (<http://www.transportationops.org/spatchallenge>). The question to the community is if the Strategic Initiatives WG should play a role in helping to coordinate and share experiences among and between the agencies verifying their SPaT deployments?

Greg noted that he this this coordination role is needed. Barry Einsig agreed it is needed and added that a larger consolidation of data is needed to organize geofencing information about V2I deployment sites, possibly involving a research effort through TRB.

Blaine suggested that we not overwhelm the sites that are trying to deploy their first SPaT site, and that we stay focused just on helping them verify their deployments. There is the SPaT Verification document that can be used to guide verification. His suggestion is to pursue any coordination support this group can offer, and perhaps consider working towards a TRB research project for the larger effort Barry described.

Greg invited members to express their interest in working on a coordination of SPaT Verification initiatives. **Action Item: Members are encouraged to email Dean (deeter@acconsultants.org) if they are interested in participating in an initiative to help to coordinate SPaT deployment Verifications.**

Ray Derr mentioned that for a cyber security research effort, it would be beneficial to have a letter identifying those agencies participating in the SPaT Challenge. **Action: Dean to assemble a letter from Greg to the Ray Derr identifying all agencies currently involved in the SPaT Challenge.**

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 circulated to other groups, in addition to this WG. Comments and input from these groups has been incorporated. This document is nearing completion. Any members wishing to add deployments should email these details to Dean as soon as possible.

Upcoming Webinar

The May webinar is cancelled. The next Strategic Initiatives WG meeting will be held at 2:00 PM Eastern on June 28, 2018.

Strategic Initiatives WG April 26, 2018 Webinar Participants

- Greg Larson (Chair)
- Joe Averkamp (Co-chair)
- Jennifer Carter
- Alan Clelland

- John Conrad
- John Corbin
- Dean Deeter
- Ray Derr
- Andrew Dick
- Ray Dingess
- Barry Einsig
- Hossam Eldeen
- Abdel All
- Hideki Hada
- Mohammed Hadi
- Jose Herrera-Alonso
- Reza Karimvand
- Mark Kopko
- Christian Kulus
- Sean Laffey
- Blaine Leonard
- Steve Lockwood
- Jonathan Martinez
- Galen McGill
- Roxanne Mukai
- Robert Murphy
- Gummada Murthy
- Jon Obenberger
- Mark Peters
- Jeremy Schroeder
- Barbara Staples
- Bob Taylor
- Tom Timcho
- Curtis Thompson
- Hoki Tse
- Matt Volz
- Brian Watson
- Mike Shagrin
- Matt Weatherford
- Joey Yang