Cooperative Automated Transportation (CAT) Coalition Strategic Initiatives Technical Working Group
June 28, 2018 Webinar
Notes and Summary of Discussions

Summary of Action Items

- *The Connected Fleet Challenge small group will meet again to try to establish more definition around the number of vehicles referenced in the Connected Fleet Challenge.*

- *Working group members to send comments on the Connected Fleet Challenge documents circulated with the meeting invite to Greg Larson, Joe Averkamp, or Dean Deeter.*

- *Greg to work with Patrick to define the boundaries of the scope for monitoring and reporting the Connected Vehicle deployments.*

- *Dean to introduce this concept to Ed Seymour, chair of the Peer Exchange and Outreach group.*

Welcome

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

Approximately 60 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

Dean Deeter provided a brief overview of the SPaT Challenge and described ongoing development of three SPaT Challenge Resources: Procurement, Cost Estimates, and SCMS. Significant progress has been made on the Procurement Resource and it now includes 5-6 examples of procurement documentation from states that have purchased SPaT related products or services. The goal is to post the Procurement Resource on the SPaT Challenge website within the next month. The Cost Estimate Resource and the SCMS Resource will likely follow in the coming months.

Dean provided an update on the SPaT Challenge webinars. Since the April webinar of this working group, there have been two additional webinars:
- Design Considerations – Part 3 on May 15, 2018 and
- Deployment and Validation on June 12, 2018.
Upcoming webinars planned include a webinar on Operational SPaT Deployments scheduled for July 17, 2018 and an additional webinar to be scheduled in August 2018. There is a tentative plan to host a webinar specific to the Security Credential Management System (SCMS), this will be discussed further in the coming months. Finally, the current plan is to continue the SPaT Challenge webinars beyond August. The concept is that webinars would occur every 8-10 weeks to allow for presentations from the SPaT Challenge

sites as they advance their deployments, and also to revisit earlier topics as technology and implementations change. All SPaT Challenge webinars are recorded and available on the SPaT Challenge website at http://transportationops.org/spatchallenge.

Jim Misener suggested that a resource on how to 'future proof' the current deployments of roadside units (RSUs) would be valuable to agencies deploying the SPaT Challenge, and offered to volunteer to be part of such an effort. He suggested such a resource could help agencies consider what investments at this time could help their investments in RSUs in light of any changes that may come to the industry (e.g. communications mediums). Greg noted that there is a SPaT Challenge Resource Team that is chaired by Ray Starr of MnDOT and suggested Jim contact Ray to express this interest.

Several members expressed interest in SCMS as a topic. Greg recognized this as a topic for future discussions and will consider it on future webinars.

Connected Fleet Challenge

Greg reminded members that this working group agreed to pursue the Connected Fleet Challenge during the April 2018 webinar. A small group of members volunteered during the April webinar to discuss details of the challenge. Since that time, the small group including Mark Kopko, Barry Einsig, Reza Karimvand, Joe Averkamp, and Greg Larson has met several times to discuss details of the challenge. The group has made progress since the April meeting and has developed a 4-page background and summary document as well as a 1 page summary document (both were attached to the meeting invite). The small group is happy with the documents and Greg invited the webinar attendees to comment on major misses in the documents. ***Action Item: Working group members to send comments on the documents circulated with the meeting invite to Greg Larson, Joe Averkamp, or Dean Deeter.***

Most of discussion was around the overall statement of the Connected Fleet Challenge: *"Agencies that have deployed infrastructure to broadcast SPaT and MAP data are now challenged to work with local partners to equip at least 1 Vehicle with an On-board Unit (OBU) to receive the SPaT and MAP data by 2021."*
Discussion followed including:
- Members of this working group discussed at length the definition of fleet and whether a number greater than 1 was more appropriate. Opinions were offered for replacing "at least 1 Vehicle" with a specific number but no consensus was reached on the number;
- A suggestion was made to use a percentage of the fleet within a location where SPaT broadcasts exist as a potential approach to avoid identifying a fixed number of vehicles;
- Blaine reminded the group that the intention of the SPaT Challenge was to get agencies to learn how to use the equipment and have devices broadcasting, not to connect the entire network of signalized intersections. The Connected Fleet Challenge was originally conceived in the same spirit, to get fleet operators familiar with connecting their vehicles to infrastructure systems, and to allow them to understand what is technically and financially involved with such deployments. Blaine encouraged the group to consider not placing too many expectations on agencies or they may not be willing to participate.

Action Item: The Connected Fleet Challenge small group will meet again (considering input from this group) to try to establish more definition around the number of vehicles referenced in the Connected Fleet Challenge.

Reza Karimvand encouraged the group to provide solid rationale on why the final number was selected. The group will look at what is real, what makes sense to meet their goals, and how they can demonstrate both progress and functionality

NOCoE Discussion on Self-Reporting of Connected Vehicle Deployments

Patrick Son reported on the SPaT Challenge resources utilized on the NOCoE website and asked the group about the interest in allowing agencies to self-report their current connected vehicle deployment activities. The concept would be for the NOCoE to create a form enabling this input. The reports could then be populated on a different map from the SPaT Challenge map.

The group discussed whether there might be a need to track connected vehicle deployments that are not SPaT broadcasts (as are tracked on the current SPaT Challenge map). There was no objection to tracking a wider variety of connected vehicle deployments. The issue was raised that conflicting definitions of connected vehicles could be an issue. Greg offered an example that he would not imagine this site would be used for agencies to report their use of transit signal priority systems using legacy communications technologies. Another suggestion was that this site could track connected vehicle systems using J2735 standards for the communications. Greg offered to work with Patrick in defining the boundaries of what would be tracked on the site. Gary Duncan suggested the Peer Exchange & Outreach group be involved in this activity as this is peer exchange. Greg suggested that Dean could help coordinate with that group.

Action Item: Greg to work with Patrick to define the boundaries of the scope for monitoring and reporting the Connected Vehicle deployments.

Action Item: Dean to introduce this concept to Ed Seymour, chair of the Peer Exchange and Outreach group.

Upcoming Webinar

The next Strategic Initiatives WG meeting will be held at 2:00 PM Eastern on July 26, 2018.

Strategic Initiatives WG June 28, 2018 Webinar Participants

- Greg Larson (Chair)
- Joe Averkamp (Co-chair)
- Hossam Eldeen Abdel All
- Fabio Capillo

- Justin Chan
- James Chang
- Alan Clelland
- Dean Deeter
- Ray Derr
- Rob Dingess

- Bob Dockemeyer
- Gary Duncan
- Dean Erickson
- Kyle Garrett
- Jack Hall
- Doug Hohulin

- Ahmad Jawad
- Reza Karimvand
- Brian Kelly
- Mark Kopko
- Christian Kulus
- Sean Laffey
- Blaine Leonard
- Steve Lockwood
- John Lower
- Galen McGill
- Jim Misener
- Roxanne Mukai
- Suzanne Murtha

- Gummada Murthy
- Venkat N
- Jon Obenberger
- Hyungjun Park
- Mark Peters
- Lev Pinelis
- Tony Polinori
- Jon Riehl
- Robert Dingess
- John Roman
- Paul Sakamoto
- Mike Schagrin
- Matt Smith

- Patrick Son
- Mike Stelts
- Jeff Stewart
- Tom Timcho
- Curtis Thompson
- Peter Thompson
- Hoki Tse
- Matthew Volz
- Matt Weatherford
- Roger Wentz
- Joey Yang