

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

August 23, 2018 Webinar  
Notes and Summary of Discussions

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## 1. Summary of Action Items

1. *Jim Misener, Dave Miller, and Tom Timcho to collaborate to assemble procurement resources for the Connected Fleet Challenge and provide an update at the September webinar.*
2. *Greg and Dean to invite Debby Bazzina to join the September Strategic Initiatives Working Group webinar to discuss experiences with Mcity that may be resources for the Connected Fleet Challenge*
3. *Members of the working group to outreach to the New York City Pilot Deployment to gather lessons learned equipping the transit buses with OBUs.*
4. *Tom Timcho to share experiences of the Columbus deployment related to OBU placement.*
5. *Greg and Dean to Include a discussion about BSM on future webinars, specifically how participants in the Connected Fleet Challenge could procure or develop systems to broadcast the BSM.*
6. *Dean and Greg to draft letters to associations introducing the Connected Fleet Challenge.*
7. *Hideki Hada, Joe Averkamp, and Hossam AbdelAll to collaborate to develop an initial brochure.*

## 2. Welcome

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

Approximately 46 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](mailto:deeter@acconsultants.org) to be added to the list.

### 3. Connected Fleet Challenge

Greg provided an update on the development of the Connected Fleet Challenge. Greg noted that the most recent versions of the two Connected Fleet Challenge summary documents (i.e. 'Background and Summary' and 'Brief Summary') were circulated to members before the webinar.

Greg asked for final comments. An edit was suggested to the brief summary to edit paragraph 3 to be as follows:

*The Connected Fleet Challenge builds upon the SPaT Challenge to increase industry experience and knowledge of DSRC deployments and also enable testing of SPaT broadcast deployments. This experience will provide broad lessons learned across IOOs in the United States based on variations in deployments with different placement, data collection, and integration decisions; vehicle makes/models; and vehicle types.*

This change was approved by members on the phone, and it was agreed the change would be made to both versions of the document.

Greg asked members to send any final comments on the Fleet Challenge summary documents to him or Dean prior to August 31, 2018.

### 4. Resources for the Connected Fleet Challenge

Greg led a discussion about the resources that would benefit the IOOs and fleet operators that accept the Connected Fleet Challenge. A total of four resource areas were discussed:

- Resource Area #1: Existing On-Board Unit (OBU) procurement documents;
- Resource Area #2: Lessons learned about mounting OBUs;
- Resource Area #3: BSM Information; and
- Resource Area #4: Overviews of potential on-board applications.

#### 4.1 Resource Area #1: Existing On-Board Unit (OBU) procurement documents.

Several members gave examples of OBU procurements, and discussed the possibility of obtaining these procurement documents, sifting through them, and extracting valuable information (e.g. requirements, specifications, contract language) that could be made available as resources for the Connected Fleet Challenge. Debby Bezzina (UMTRI) was identified as a potential contact at MCity.

Jim Misener, Dave Miller, and Tom Timcho volunteered to work on assembling information from the CV Pilot Sites (New York, Tampa, Wyoming), Columbus, and MCity. *Action Item: Jim Misener, Dave Miller, and Tom Timcho to collaborate to assemble procurement resources for the Connected Fleet Challenge and provide an update at the September webinar.*

Hossam noted that Macomb County is planning to procure OBUs to interface with the RSUs they recently installed. They do not have OBU procurement documents yet but will share them when they do.

## **4.2 Resource Area #2: OBU Mounting Lessons Learned**

Greg noted that the CV Pooled Fund Study completed a project that includes materials related to mounting OBUs and equipment on snowplows, describing implementation experiences. A copy of the Final Report can be accessed at the following link: [http://www.cts.virginia.edu/wp-content/uploads/2018/01/CVPFS\\_DSRC\\_RdWx\\_Deploy\\_Report-Final\\_v2.pdf](http://www.cts.virginia.edu/wp-content/uploads/2018/01/CVPFS_DSRC_RdWx_Deploy_Report-Final_v2.pdf).

Blaine shared some experiences Utah DOT had when working to install OBUs on the transit buses:

- OBU Placement is not usually an issue, but is specific to vehicle type;
- Antenna placement is critical to good reception. Need to procure the antenna, and the requirements vary based on which OBU is used;
- Connecting to the CAN bus is a challenge.

Hideki Hada suggested outreach to UMTRI. Debby Bazzina has considerable experience with the connections of OBUs. Greg noted that connections to the CAN buses can be easier for buses and trucks than for passenger vehicles. Tom Timcho offered to review past project work related to OBU placement and update members at the next webinar.

*Action Item: Greg and Dean to invite Debby Bazzina to join the September Strategic Initiatives Working Group webinar to discuss experiences with Mcity that may be resources for the Connected Fleet Challenge*

*Action Item: Members of the working group to outreach to the New York City Pilot Deployment to gather lessons learned equipping the transit buses with OBUs.*

*Action Item: Tom Timcho to share experiences of the Columbus deployment related to OBU placement.*

## **4.3 Resource Area #3: Basic Safety Message (BSM) Overview**

Blaine noted that he believes that those who accept this challenge will need information about the Basic Safety Message (BSM), for example what elements are mandatory and what are optional.

*Action Item: Include a discussion about BSM on future webinars, specifically how participants in the Connected Fleet Challenge could procure or develop systems to broadcast the BSM.*

## **4.4 Resource Area #4: Application Overview**

Blaine also suggested that information about possible applications that fleet operators might deploy would be valuable. These could include applications that use the SPaT/MAP data broadcast from the intersections.

*Action Item: Include a discussion about possible application on future webinars, specifically how participants in the Connected Fleet Challenge could select applications and develop or procure services to deploy these.*

## **5. Outreach of the Connected Fleet Challenge**

Greg led a discussion about how to conduct outreach informing those in the industry about the Connected Fleet Challenge.

Joe Averkamp noted that he will be presenting to the International Bridge Tunnel and Turnpike Association (IBTTA) and can include mention of the challenge. Joe also suggested the American Public Transit Association (APTA) and American Trucking Association (ATA), as well as ITE (national and local meetings).

Hideki Hada suggested that letters to each of these associations introducing the challenge and requesting them to support the challenges might be effective mechanisms to increase outreach. The group agreed to draft these letters and discuss on the next call whether these should be sent from AASHTO, or this Working Group (e.g. with Greg's signature).

*Action Item: Dean and Greg to draft letters to associations introducing the Connected Fleet Challenge.*

Greg also introduced the need for a 1-2-page brochure. The content for the brochure is already assembled in the summary documents, however a brochure should include some graphics and present the material succinctly. Hideki Hada and Joe Averkamp offered to help work on the brochure. Hossam also offered to provide input.

*Action Item: Hideki Hada, Joe Averkamp, and Hossam AbdelAall to collaborate to develop an initial brochure.*

## **6. Update on the SPaT Challenge**

Blaine provided a brief update on the SPaT Challenge. The SPaT Webinars will continue to be conducted less frequently than over the past six months and the focus of the webinars will be on allowing those agencies that deployed SPaT systems to present their experiences deploying.

Blaine noted that the SPaT Challenge Tactical Working Group decided to reach out to the IOOs that indicated they are pursuing the challenge but will do so individually with specific questions about their status and any needs they have for additional resources.

The introduction of the Connected Fleet Challenge will also be shared with the agencies pursuing the SPaT Challenge.

## **7. Upcoming Webinar**

The next Strategic Initiatives WG meeting will be held at 2:00 PM Eastern on September 27, 2018.

## Strategic Initiatives WG August 23, 2018 Webinar Participants

- Greg Larson (Chair)
- Joe Averkamp
- Blaine Leonard
- Aara Greenwood
- Stan Caldwell
- Dave Miller
- Ali Lohman
- Doug Hohulin
- Gary Duncan
- Hideki Hada
- Galen McGill
- James Chang
- Christian Kulus
- Jianming Ma
- John Conrad
- John Lower
- Hyunjung Kim
- Jonathan Martinez
- Jim Misener
- Roxane Mukai
- Mark Kopko
- Ken Moshi
- Steven Mensch
- Hossam AbdelAll
- Michael Stelts
- Ben Walker
- Mike Shagrin
- Patrick Chang
- Susan Catlett
- Mark Peters
- Chris Stanley
- Tom Timcho
- Daniel Worke
- Venkat Nallamothu
- Mauricio Guerra
- Ken Yang
- Murali Rao
- Barry Ensig
- Jennifer Carter
- Jeremy Schroeder
- Dean Erickson
- Darryl Keaton
- Karen Nguyen
- Dean Deeter