

V2I Deployment Coalition

Deployment Initiatives Technical Working Group (TWG 1)

February 2, 2017 Webinar

Notes and Summary of Discussions

Welcome / Introductions

Dean Deeter welcomed everyone and noted that Bill Legg, the former TWG 1 Chair, was no longer with WSDOT. He then introduced Greg Larson from Caltrans who will serve as the TWG 1 Chair going forward. Greg introduced himself and described that he had previously chaired the V2I DC TWG 2 (Research).

At least 30 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.

Potential TWG 1 Topic Areas

Greg introduced that the first agenda item for the day is to discuss new topic areas that TWG 1 members may wish to pursue. The intent of the agenda item was to present two topics and hear feedback from the members on their interest in the topics.

Potential Topic Area #1: Data Exchanges between Signal Controllers

Greg introduced Matt Smith (Michigan DOT) to describe the first topic area. Matt explained how he believes the data exchanges that will likely occur between traffic signals to support Connected Vehicle applications, and specifically the compatibility in messages exchanged, is an area that needs more discussion. Matt described the scenario of Signal Phase and Timing (SPaT) broadcasts. He noted that not all controller manufacturers embrace third party solutions to produce elements required in the standards for data exchanges. He believes a cohesive vision for how SPaT broadcasts are deployed at each intersection would be beneficial, describing such things as how SPaT is generated and how it is communicated between controllers, especially when adjacent intersections operate controllers from different manufacturers.

Gary Duncan (Econolite) agreed that this is an issue, and noted that it is very similar to many topics discussed by TWG 5. He believes standards will play a role in resolving this issue. Chris Stanley (Battelle) also supported additional dialog on this topic.

Greg asked if Matt would be willing to create a Task Force to pursue this concept further and report back to TWG 1. Matt agreed, although he indicated that he would likely ask Collin Castle (MDOT) to lead the effort. Chris Stanley, Gary Duncan, and Jeevanjot Singh all volunteered to join the Task Force. **Action: Dean to work with Matt and Collin to establish the Task Force.**

Potential Topic Area #2: Sharing Technical Information on Deployments

Greg introduced the next potential topic area as a concept where each month TWG 1 would have a presentation from an agency that is currently or has previously deployed V2I systems. Greg described that the intent would be to hear details about the V2I deployment, any issues encountered, and how they

were resolved. Deb Curtis and Chris Stanley have already agreed to present at the February 23 webinar, and Utah DOT has been asked to present in March.

All members were in support of this concept, and it was agreed this topic area would begin at the February webinar with Deb and Chris presenting the V2I Hub deployment in Florida.

SPaT Challenge Update

Dean Deeter (Athey Creek) presented an update on the SPaT Challenge. He reminded members that the SPaT Challenge Resolution was approved by AASHTO in November, and that there is still a plan for a SPaT Challenge Workshop/Webinar later in 2017. Dean informed members that the SPaT Challenge web pages are live on the National Operations Center of Excellence (NOCoe) website at the following address www.transportationops.org/spatchallenge.

Dean updated members on the SPaT Challenge Resources. The Resource Team had met earlier this day, and was currently working on the following resources:

- Simple Steps and Resources for Implementation – A guide for how agencies can navigate the steps of SPaT deployment;
- Deployment and Operations Cost Estimates – A breakdown of the cost components and low and high cost ranges for each component; and
- Sample Documents – to include as many examples of DSRC license applications, Concepts of Operations, Requirements, or designs.

Dean described how two new working groups were established at the December meeting of the V2I DC Executive Committee. These working groups include:

- The SPaT Challenge Tactical Working Group – A group to focus on developing strategies for outreach to public and private sector agencies to educate them on the SPaT Challenge, and also to conduct the outreach to the technical staff at public and private sector agencies; and
- The SPaT Challenge Executive Working Group – A group to focus is on performing outreach to executives within state and local agencies, as well as private companies.

Dean shared a diagram illustrating the various SPaT Challenge groups (Figure 1).

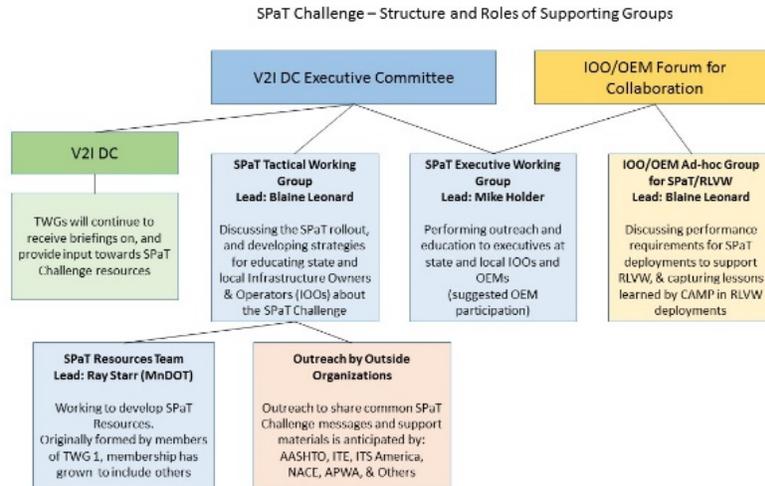


Figure 1 – Illustration of the Various SPaT Challenge Groups

Dean shared the latest version of the SPaT Resource Tracker, and noted that the Resource Team will meet again in February, and invited anyone interested in participating to email him at: deeter@acconsultants.org.

DSRC Deployment Tracking Spreadsheet

Greg introduced Trinell Ball (Toyota) who presented a spreadsheet that Toyota has assembled to include as many DSRC deployments in the United States as possible. This was originally assembled for ITS World Congress and Trinell previously presented to TWG 1 at the October webinar. Trinell noted that currently the spreadsheet includes the quantitative information about DSRC deployments (e.g. how many devices are deployed), but he is considering adding additional qualitative information that they gained from talking with contacts at the deployment sites. He feels that the qualitative descriptions describing topics such as why decisions were reached is equally valuable. He also noted that additional quantitative data would be valuable (e.g. number of vehicles equipped with on-board units that interact with the DSRC deployments at each location).

Greg noted that he and Dean are having discussions with the NOCoE about a plan for maintaining the spreadsheet. Trinell indicated he was planning to perform another update to the spreadsheet, and then he would send it to Dean, who would circulate it to the group.

Mike Shagrin noted that Volpe is charged with a similar effort to track DSRC deployments. It was noted that Karen Timpone may be heading up this effort. Dean agreed to contact Karen Timpone to discuss this, and avoid duplicative efforts.

Action: Dean will circulate the DSRC spreadsheet once he receives it from Trinell. TWG 1 members are asked to send information about any additional DSRC deployments they are aware of to Dean.

Future Webinars

Greg asked members if the fourth Thursday of each month at 2:00 PM Eastern is still a good time for TWG 1 webinars. All agreed it still was. Greg noted that the next webinar would be February 23, 2017 at 2:00 PM Eastern.

TWG 1 February 2, 2017 Webinar Participants

- Greg Larson, Chair
- Bob Rupert
- Brian Watson
- Eric Ellington
- Gary Duncan
- Ken Yang
- Kevin Comstock
- Leisa Moniz
- Mark Kopko
- Matt Smith
- Mike Shagrin
- Reza Karimvand
- Chris Stanley
- Dean Erickson
- Trinell Ball
- Debby Bezzina
- Gary Strack
- James Li
- Jeevanjot Singh
- Jennifer Carter
- Ed Alegre
- Joey Yang
- John Lower
- Jon Riehl
- Jonathan Martinez
- Kyle Connor
- Mohammed Hadi
- Pete Hansra
- Weimin Huang
- Dean Deeter, Liason