

Connected Intersections Committee Meeting

The following are meeting minutes from meeting of the Connected Intersections (CI) Committee on Monday September 21, 2020 scheduled from 3:00 PM EDT to 5:00 PM EDT by web conference on GoToMeeting.

The agenda is provided at the end of these minutes.

All times in EDT.

Roy Goudy called the meeting to order at 3:00 PM.

Siva Narla reviewed ITE's anti-trust guidelines.

Roll Call of Committee

The committee members in attendance are highlighted in yellow. Note: there is one vacant seat.

Roy Goudy, Nissan (co-chair)	Faisal Saleem, Maricopa County	Raj Ponnaluri, Florida DOT
John Thai, City of Anaheim (co-chair)	Jay Parikh, CAMP	Ray Starr, Minnesota DOT
Christina Spindler, Wyoming DOT	Jesus Ruiz, McCain (alternate for Mike Schragin)	Steve Bowles, 360 Network Solutions
Doug Schmidt, Aptiv	Jim Misener, Qualcomm	Vivek Vijayakumar, GM
Doug Tarico, Q-Free (alternate for Whitney Nottage)	Justin McNew, JMC Rota	
Ed Seymour, TTI	Mike Shulman, Ford	
	Mike Stelts, Panasonic	

A quorum is present.

Also in attendance were:

AJ Lahiri, ConSysTec	Hassen Alwalie, Danlaw	Matt D'Angelo, Gresham Smith
Alan Clelland, DKS	Haydar Issa, Transport Canada	Maysa Hanna
Anthony Gasiorowski, WSP	Jane Berger	Michael Clifford, Toyota
Animesh Balse, Leidos	Jasja Tijink, Kapsch	Michael Maile
April Wire, Maricopa County DOT	Jean Johnson, NEMA	Michael Stelts, Panasonic
Barry Einsig, Econolite	Jim Alfred, Blackberry	Michaela Vanderveen, Stillwater Consulting
Bob Rausch, TransCore	Jimmy Upton, ISS	Mohammed Hadi, FIU
Brian Simi, CalTrans	John Corbin, USDOT	Nathan Vatter, Tennessee DOT
Christina Bennett	John Kenney, TNA	Nick Hegemier, DriveOhio
Christopher Poe, Mixon Hill	Kellen Shain, Noblis	Nicola Tavares, ITE
Danyang Tian, Honda	Kevin Balke, TTI	Patrick Chan, ConSysTec
David Aylesworth	Kevin Chan, Minnesota DOT	Peter Jager, UDOT
David Benevelli, TransCore	Kevin Tobias, PennDOT	Ralph Boaz, Pillar Consulting
Dean Deeter, Athey Creek	Kevin Vitta, ITS America	Randy Roebuck, OmniAir
Deborah Curtis, USDOT	Kiel Ova, Traffic Technology Services	Rich Deering, CAMP
Doug Gettman, Kimley Horn	Kyle Garrett, Synesis Partners	Rob Baily, Kapsch
Drew Van Duren, Qualcomm	Linda Nana, Noblis	Robert Saylor, City of Plano
Edward Fok, FHWA	Manny Insignares, ConSysTec	Shah Hussein, CAMP
Ed Leslie, Leidos		

Siva Narla, ITE
Srinivasa Sunkari, TTI
Steve Sill, USDOT

Steve Sprouffske, Kapsch
Timothy Seitz, Aptiv
William Whyte, Qualcomm

Wolfgang Buckel, Siemens
Zhitong Huang, Leidos

Purpose

- Update the CI Committee on ConOps and Progress of each Task Force

Objective

- Present the draft ConOps document and Task Force Progress

Project Progress

John Thai went over the progress of the project, including a review of the ConOps document. Emphasized the focus is on safety applications. Mobility applications may be addressed in a future update. Asked for comments to be submitted by September 29.

Task Force Reports

- **Security**
 - William Whyte discussed.
 - No substantial changes have been made to user needs assigned to task force since walkthrough
 - Developing candidate set of requirements for review at meeting
 - Will liaise with other task forces as appropriate
- **Testing/Conformity**
 - Jay Parikh and Manny Insignares discussed testing scope and methodology as well as challenges and opportunities
- **Traffic Controller**
 - Roy Goudy discussed progress
 - Identified user needs where requirements can be attributed.
 - Determined that for safety applications such as RLVW, nearly 100% confidence is required
 - Subcommittee Confidence Factor meetings suspended
 - Will develop confidence factor method for non-safety critical applications
 - Currently continuing the work on RLVW application that started in the Confidence Factor Subcommittee
 - Focused on RLVW application
 - the need is to provide an alert so the driver may clear the intersection while in yellow
 - Will continue working on RLVW application solution
- **SPaT/MAP**
 - Ray Starr discussed progress
 - Task force has discussed requirements for a Road regulator ID and several other signal states. Looking at schemes to define road regulator IDs that can fit within a 16-bit field.

Noted that there is space for slightly more than 65,000 intersection identifiers, but combined with the road regulator ID, there is enough identifiers for North America.

- Worked with controller task force
- Currently working on signal time change details
- Working on MAP requirements and performance requirements in the future.
- **Positioning Task Force**
 - Jim Misener discussed
 - Validated user needs
 - Did not accept secondary user need assigned to TF, 2.4.2.2.1 *Time Source*
 - Recognizing RTK user need
 - Determine RTCM version
 - Determine how to provide position accuracy when RTK is not available
 - Explore alternatives to supporting RTK
 - Discussion on minimum requirements to provide information for positioning information.

Project Schedule

- Patrick Chan presented the project schedule and upcoming milestones.
- Roy Goudy has begun discussions with potential sites for validation. May select more than one site. Would like to identify one or more sites by end of December.

Committee Vacancy

Jason Graves from DENSO has dropped out of the committee. Siva Narla reaching out to potential replacement.

Action: Siva Narla to nominate new committee member to fill vacancy by next meeting on October 4

Any new members interested in participating in a task force should sent email to standards@ite.org. Indicate what task forces preferred in email. No more than three task forces per individual.

Meeting Adjourned at 4:44 PM.

Agenda

1. Call to Order
2. Anti-Trust Guidelines
3. Roll Call of Committee members
4. Meeting Purpose and Objectives
5. Progress to Date
6. Report from each Task Force
 - Accomplishments
 - Next Steps
7. Project Schedule