

Connected Intersections

Committee Meeting

The following are meeting minutes from a plenary meeting of the Connected Intersections Implementation Guide project on September 27, 2021, scheduled from 2:00 PM to 5:00 PM by web conference.

Times in EDT.

An agenda and chat log are provided.

Call to Order & Welcome

Meeting began at 2:00 PM.

The ITE anti-trust guidelines were reviewed by Siva Narla.

Roll Call of Committee Members:

The committee members in attendance are highlighted in yellow.

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

A quorum was present.

Also in attendance were:

Aaron Moore, OmniAir	Ed Fok, USDOT	Kingsley Azubike, USDOT
Alan Davis, GDOT	Edith Wong	Kyle Garrett, Synesis Partners
Asfand Siddiqui, Caltrans	Greg Barlow, RapidFlow	Mahmood Nesheli
AJ Lahiri, ConSysTec	George Rogerson	Manny Insignares, ConSysTec
Alex Lemka	Guoyuan Wu	Masoud Motamedi, JMC Rota
April Wire, Maricopa County	Hassan Chara, TTI	Matt D'Angelo, Gresham SMith
Brandon Schlueter, STC Traffic	Haydar Issa, Transport Canada	Michael Finochio, City and County of Denver
Brandon Stakeleff	Iouri Nemirovski, Yunex	Michael Lockerman, Denso
Brian Reed, WSP	Israel Lopez, Triunity	Michaela Vanderveen, MITRE
Brian Simi, Caltrans	Jimmy Upton, ISS	Nicola Tavares, ITE
Charlie Cheng, iSmartways	Justin Anderson, Noblis	Neal Probert, Nissan
Christopher Poe, Mixon Hill	Kellen Shain, Noblis	Patrick Chan, ConSysTec
Chuck Felice, UDOT	Ken Yang, AECOM	Patrick Zelinski, AASHTO
David Benevelli, Transcore	Kevin Tobias, PennDOT	Ralph Boaz, Pillar Consulting
Drew Van Duren, Qualcomm	Kevin Vitta, ITS America	

Randy Roebuck, OmniAir
Rich Deering, RK Deering
Robert Rausch, TransCore
Robert Saylor, City of Plano
Siva Narla, ITE

Steve VanSickle, FIVE36
Subhadipto Poddar, Clark County
Suzanne Sloan, Volpe
Ted Sadler, Integral Blue
Tom Kurihara, TkStds

Tom Lusco, Iteris
Virginia Lingham, WSP
William Lee
William Whyte, Qualcomm

Significance of the Connected Intersections Project

Siva discussed how different industries and organizations came together to develop the system engineered document. The accomplishments of the task forces could not be conceived at the start of this project.

Siva thanked everyone for being part of the project.

Review of CI Project

John Thai reviewed why this project began-to address the number of ambiguities and gaps found in early deployment of connected intersection and provide guidance towards nationwide interoperability of connected vehicles at signalized intersections.

John Thai reviewed what has occurred since April 2020, including the formation of task forces, the system engineering documents developed, the validation phase, and the ballot.

V1.00 approved and submitted to USDOT in September 2021.

USDOT is finalizing coordination and outreach.

Document will be posted on ITE website.

Accomplishments

Roy Goudy went over accomplishments for the project overall.

SPaT/MAP Task Force

Ray Starr discussed accomplishments of the SPaT/MAP Task Force.

Positioning Task Force

Justin McNew discussed accomplishments of Positioning Task Force.

Security Task Force

Jimmy Upton discussed accomplishments of Security Task Force.

Israel Lopez asked if the guidance uses IEEE 802.1x for credential management, which is common for most wireless radios in enterprise. William Whyte said IEEE 1609 is used. IEEE 802.1x is not quite relevant here.

Traffic Controller Issues Task Force

Ralph Boaz discussed accomplishments and challenges of Task Force as well as outstanding items and future needs.

Controller Vendor Subcommittee

Eric Ramont discussed lessons learned from deployment practices and SPaT challenges across the country.

Testing and Conformity

Jay Parikh discussed accomplishments of Testing Conformity Task Force. Jay discussed the field test environment and tools.

Jay Parikh discussed the validation phase and its accomplishments.

Michael Lockerman asked what Traffic Signal Controller is used to test sending SPaT to the RSU via NTCIP 1202. **Action.** Jay Parikh to include in findings report.

Validation Sites Feedback

Brian Reed discussed the Ann Arbor CV environment and UMTRI's experience in the validation phase.

Road Regulator ID

Steve VanSickle discussed replacing the SAE J2735 RoadRegulatorID to address issues, including those identified by the CI Project.

The new ID called RoadAuthorityID uses an Object Identifier (OID) scheme for identifying a road authority.

Next Steps

Findings Report from the validation phase will be released at the end of 2021.

Additional guidance to be developed to address the TSCBM, latency, and security. Addendum will be expected in 2022.

There may be follow-on activities after this but not guaranteed.

Closing Remarks

Roy and John gave closing remarks.

Justin McNew gave closing remarks for SAE.

Siva gave closing remarks for ITE.

Ed Fok gave closing remarks for USDOT.

Meeting concluded 4:37 PM.

Agenda

1. Call to Order
2. Anti-Trust Guidelines
3. Roll Call of Committee members
4. Review of Connected Intersections Project
5. Road Regulator ID

6. Next Steps

7. Adjourn

Chat Log

[1:58 PM] Israel Lopez

Does your recommendations use 802.1x for credential management? This is common for most wireless radios in the Enterprise space.

[2:16 PM] Nicola Tavares

If you are not presenting please MUTE your line. Thanks

background noise. Thanks

[2:38 PM] Michael Lockerman

Which TSC(s) did you use to test the scenario where SPaT is delivered to RSU via NTCIP 1202?

[2:53 PM] Michael Lockerman

thx

[3:35 PM] Shen, Kezhen

Hi Nicola, no comments from NEMA. Thank you.

[3:35 PM] Zelinski, Patrick

Hi folks, sorry I was too slow on the mute. We're happy to be a part of this at AASHTO.