Other SDO needs of V2V and V2I

Alexandre Petrescu (speaker)

ITS BoF at IETF 95

April 6th, 2016

Buenos Aires

C-ACC and Platooning at SDOs

draft-petrescu-its-cacc-sdo-04.txt:

- ETSI ITSI TC: pre-standardization study.
- IEEE 1609: C-ACC is an application.
- SAE: DSRC TC works on C-ACC within the Cooperative Vehicle Task Force.
- 3GPP: [GPP-TR-22-885] C-ACC allows a vehicle to join a group of C-ACC vehicles; maybe License Assisted Access (LAA-LTE)
- METIS project: V2V for e.g. accident avoidance
- ISO TC204 WG14 developing a draft of international standard for C-ACC systems.
- ITU-T SG 16 Question 27/16: proposed study item about OBUs acting as bridges between cars and between cars and infra.
- ARIB and ITS Info-comm: inter-vehicle communications (presumably V2V, Ed.) are realized with Basic Messages generated by an application layer running on top of a "IVC-RVC" layer (at the typical network-layer place, Ed.)
- FirstNet: architecture includes vehicle-to-vehicle, vehicle-to-infrastructure and vehicle-to-infrastructure-to-vehicle communications using, in certain cases, LTE and IP.

Recent

- Recently Car-to-Car Communications Consortium (C2C-CC) expressed interest, but discussions ongoing, hurdles spotted.
- ITU work items related to ITS, in "Collaboration":
  – Complete list at http://itu.int/go/ITScomms
  – Service and functional requirements of vehicle gateway platforms
  – Communications interface between external applications and a Vehicle Gateway Platform
  – Security guidelines for V2X communication systems