

**CANADA-U.S. REGULATORY COOPERATION COUNCIL (RCC)
CONNECTED VEHICLES WORK-PLAN**

For deliberative purposes only.

Regulatory Area to be addressed	<i>Transport Canada and the U.S. Department of Transportation will coordinate and collaborate on Vehicle to Vehicle (V2V) and Vehicle to Infrastructure (V2I) communications technology and applications development and implementation for light- and heavy-duty vehicles, including architecture and standards to support interoperable deployment. This will include, where appropriate, joint planning and priority-setting, collaborative research projects, as well as information exchanges to support analyses as well as architecture and standards development.</i>	
Work Stream	Support the interoperable deployment of Connected Vehicles through collaborative: standards development; research and testing; information-sharing, and implementation activities, (i.e. security certificate management system, equipment certification, cyber-security).	
Department/Agency	Canada 	United States 
	Transport Canada (TC)	United States Department of Transportation (USDOT)
Planned Initiatives and Sub-Deliverables		Date
INITIATIVE 1 — Connected Vehicle (CV) cybersecurity, equipment certification and security certificate management systems: <i>collaborate on policy and technical requirements to develop a cross-border connected vehicle security certificate management system (SCMS); and collaborate to establish certification requirements for CV system components with a focus on device compliance needs, safety and human factors, system security and privacy requirements.</i>		May 2014 – December 2019
1.A. Collaborate on the development of certification requirements for in-vehicle, after-market, and road-side CV equipment. Activities will include: <ul style="list-style-type: none"> • launch of collaborative technical projects to support USDOT CV Pilots, including a minimum of one Canada-led CV pilot to evaluate SCMS/certification approaches; • bilateral discussions and analysis of policy requirements; • joint participation, as appropriate, in meetings with stakeholders, test labs and CV technical/policy experts. 		April 2015 – December 2019
1.B. Conduct information exchanges on security certificate management systems (SCMS) — including technical operations and policies — to support seamless cross-border vehicle operations and full interoperability between both countries. This includes the following: <ul style="list-style-type: none"> • USDOT will share information on the outcomes of the department’s Request for Information (RFI) on SCMS systems; • USDOT’s HTG#6 team will arrange a joint TC/USDOT briefing covering emerging policy/standards 		January 2015 – December 2019

**CANADA-U.S. REGULATORY COOPERATION COUNCIL (RCC)
CONNECTED VEHICLES WORK-PLAN**

For deliberative purposes only.

<p>development recommendations for joint consideration;</p> <ul style="list-style-type: none"> • bilateral exchanges of information to understand options that exist to facilitate cross-border cooperation, and determine how cross-border instruments can be used or may influence/impact SCMS management and governance. 	
<p>1.C. Undertake collaborative activities to address CV cybersecurity, including sharing technical resources and vehicles/equipment to support testing activities, including establishing a TC/USDOT (Volpe National Transportation Systems Center) Memorandum of Cooperation on cybersecurity.</p>	<p>May 2014 – December 2016</p>

<p>INITIATIVE 2 — Spectrum Policy Analysis: <i>identify opportunities for collaboration and exchange on intelligent Transportation Systems (ITS) communications platforms, spectrum allocation and spectrum policy for connected vehicle applications.</i></p>	<p>January 2015 – December 2019</p>
<p>2. A. Identify areas of spectrum policy for Dedicated Short Range Communications (DSRC) that must be addressed to successfully ensure cross-border interoperability of connected vehicles. This includes a joint review of the international spectrum scan white paper being developed by USDOT to:</p> <ul style="list-style-type: none"> • conduct information exchange on the details of the white paper to identify institutional similarities and differences; • identify consistent areas of spectrum policy to support cross-border operations and opportunity for collaborative investigations; • provide inputs to help finalize the white paper. 	<p>January 2015 – December 2015</p>
<p>2.B. Monitor and, where appropriate, cooperate in work being done on spectrum policy and associated standards by key standards development organizations, e.g. Institute of Electrical and Electronics Engineers (IEEE), International Telecommunication Union (ITU). This includes bi-annual TC/USDOT bilateral briefings, (or as required) to provide updates on the status of key standards in support of spectrum policy.</p>	<p>January 2015 – December 2019</p>

**CANADA-U.S. REGULATORY COOPERATION COUNCIL (RCC)
CONNECTED VEHICLES WORK-PLAN**

For deliberative purposes only.

INITIATIVE 3 — Standards and Architecture: <i>identify new or revised standards required to support large scale connected vehicle technology deployment, and Integrate detailed Connected Vehicle Reference Implementation Architecture (CVRIA) into overall Canada/US National ITS architecture updates.</i>	January 2015 – December 2019
3.A. Participate cooperatively, as appropriate, with the European Union and Australia in harmonization activities to identify CV standards gaps and make recommendations for standards selections – to facilitate interoperable CV deployments in Canada/U.S.	March 2015 – December 2018
3.B. Undertake activities to harmonize Connected Vehicle Reference Implementation Architecture (CVRIA) into Canada/U.S. National ITS Architectures, including: <ul style="list-style-type: none"> • participating in planned public CVRIA events and other consultative fora, as appropriate; • harmonizing national ITS Architectures based on the planned release of U.S. CVRIA version two in mid-FY2015, and identifying additional CV standards required; • investigating opportunities for TC/USDOT to jointly participate in future domestic/international standards harmonization work. 	January 2015 – December 2016
3.C. Update the Border Information Flow Architecture to facilitate efficient cross-border movement of people and goods. Conduct joint studies and pilots, where possible, to develop and evolve concepts that facilitate connected vehicle technologies and applications across borders.	April 2016 – December 2019
3.D. Undertake joint consultation and engagement of industry stakeholders on new standards development processes required to support large-scale CV deployments in Canada/U.S.	Annually (2015 – 2019)

INITIATIVE 4 — Information Dissemination & Sharing (in support of regulatory activities): Jointly engage stakeholders on bi-national and related international CV issues, including hosting open public meetings that would include Canadian and U.S. stakeholders.	April 2015 – December 2019
4.A. Collaborative engagement of stakeholders on bi-national and related international CV issues, including: <ul style="list-style-type: none"> • participation on the Association of American State Highway Transportation Officials (AASHTO) Connected Vehicles Executive Leadership Team (ELT), and V2I Deployment Coalition; • hosting a minimum of one annual in-person meeting on the CV RCC work-plan progress with stakeholders, i.e. during ITS Canada/ITS America annual meetings; • exploring the potential for new projects among TC, USDOT and e.g. Canadian Council of Motor Transport Administrators (CCMTA), Transportation Association of Canada (TAC), Association of American State Highway Transportation Officials (AASHTO) and other appropriate partner organizations; • developing a list of potential international events where engagement can occur. 	April 2015 – December 2019