# Common Vehicle Interface Initiative - Home

ⓘ The Common Vehicle Interface Initiative is a joint outreach from COVESA and W3C to the automotive industry, involving several other organizations to align fragmented data and service modeling approaches into a _true industry standard_.

Quick introduction:

1. Read the CVII brief and the shortened first-introductions slide deck which includes a diagram of active projects, and a map of related organizations for CVII Alignment.
2. Then move on to the full community slide deck

3. It is still possible to add to the pre-workshop survey - to provide your opinion (because it is important!) fill it in here.

_Contact Stephen Lawrence (Renesas), Paul Boyes (COVESA) and Ted Guild (Geotab/W3C) for more information._

| Relevant Information on CVII | | |
|---|---|---|
| Extended Working Session, July 1 | Slide decks can be viewed here | |
| CVII Big Working Session on 18 February 2021 | Slide decks can be viewed here | |

| Related Webinars | |
|---|---|
| The question "Why automotive suppliers and data-focused companies need a Common Vehicle Interface Initiative" was addressed in this Mobex/ Automotive World Webinar. | |
| You can view that slide deck or view the recorded webinar!  This includes a Data-business oriented company (Geotab) giving their view. | |
| The services aspects of CVII, Vehicle Service Catalog, and resulting Service Oriented Architectures were presented in another Mobex/Automotive World webinar. | You can view the recorded webinar here |
| CVII and Software Architecture presentation and chat at Automotive Tech Week - Megatrends conference | View the recording here. Ward's auto wrote an article about it. |
| CVII future-looking presentation including Software-defined Vehicles and "Vehicle Cloud Computing" was presented at Focus - Software Defined Vehicle. | There is a recording available on request (send email). |

# PROJECT Meeting Schedules/Access

| Project Meetings | Meeting Notes | Meeting Date/Time | Contact |
|---|---|---|---|
| CVII General Technology Stack meeting | meeting notes | Wednesdays, 1700 CET, Zoom Link, Meeting number 885 2018 1731, Passcode:  @CVII1 | Stephen Lawrence |
| Vehicle Signal Specification (VSS) & VSSo (VSS ontology) development | |  Tuesdays 1 PM EST / 1900 CET, for 1 hour combined (VSSo first 30 minutes, VSS the second 30 minutes).  Zoom link, Meeting number 754 644 794, Passcode: std.data1 | Paul Boyes<br><br>Ted Guild |
| VISS v2 protocol development (=web protocol for VSS data) | | Tuesdays 2 PM EST / 2000 CET, 1 hour, please see W3C Automotive Working group | Ted Guild |
| RPC Protocol Development | | Weekly, Mondays 1 PM EST / 1900 CET, 1 hour, Zoom link Meeting ID: 831 6322 5072 Passcode: !stdserv1 | Unknown User (magnus.feuer) |
| Cloud & Connected Services – reference architecture for Vehicle-to-cloud, (using standard data model) – | | see project home page for information | |

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|---|---|---|---|
| **Android Automotive SIG - Vehicle HAL topic** is related since it also investigates the integration of Android with a full vehicle data model (VSS) | | see project home page for information. | |

Feel free to also contact **COVESA's Community Manager**, Paul Boyes if you have questions about any topic.

## Backlog/Topics (in addition to active projects above)

- User Identification – this is not the first/primary scope of CVII (establish data & services standards) but is an important part of authorizing data access, etc., so likely becoming an important side-topic project.

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# Introduction

In May of 2020, a number of companies initiated a conversation about the Common Vehicle Interface Initiative (**CVII**) in a panel discussion held at the GENIVI Virtual Tech Summit, which has led to **W3C** and **GENIVI** spearheading a coordination initiative in the automotive and web industries.

The core of the initiative gathers around this question: **"Is it time to finally define the *industry-wide standard* vehicle data model?"**

The initiative then extends the established idea of the standard data model to **functional interfaces**. **CVII** sets out to promote and drive the creation of **in dustry-wide standard data, and service/interfaces (one or several standard catalogs)** as well as a standard way to describe those services and interfaces (**data and services model**)

The *initiative* proposes some technologies but is **not** there primarily to add just another choice to the mix. It is there primarily to drive conversations between all conflicting projects towards alignment and compatibility – ultimately yielding a single consistent model for data and services.

The idea of **inviting** many **industry development organizations** to a **wide initiative** was based on seeing a number of industry trends, specific requests from some companies for a similar activity, and a natural **extension of collaboration already in place** between different industry organizations like GENIVI, W3C, Sensoris, AUTOSAR, and others.

After completing some initial activities (virtual panels, presentations, OEM-only-roundtable meetings, and other outreach), the *initiative* can now be considered started. The work is already underway and gradually being organized from an outreach discussion to become a proper project or collection of projects under the initiative.

## More historical events and information:

1. OEM Panel during the GENIVI Virtual Event (27th October 1510 Central Europe Time / 10:00 am US Eastern Time) entitled "**Why does the industry need a Common Vehicle Interface?**"

Representatives from Ford, Renault, and Volvo Cars give compelling support for the initiative to build a common vehicle interface. Slides and recordings

2. W3C community outreach (27th October, Europe/US time zone)

A presentation of the **CVII** will be done in parallel during the plenary part of **W3C TPAC** and TPAC participants are invited to join the following workshop that takes place during the COVESA AMM. W3C members are encouraged to register for that event through their representatives. Since this is the plenary session for W3C, it has the opportunity to spread the word about this automotive-specific work to a variety of protocol experts in many other fields. If the participants are not already aware of the upcoming workshop, they will be invited to hop over to the Workshop when it starts.

3. CVII Work Definition Workshop (27th October, Europe/US time zone)

Following the introductory panel, there will be significant workshops in which we expect different stakeholders who are already active to lead discussions on various sub-topics that include

- A very **short introduction** (most participants will already be active in the project, therefore we ask that new participants read the introductory material
- **in-vehicle** standard interfaces vs. **vehicle-to-cloud** boundary
- How to progress a common **model** and a common **catalog** as separate but synergistic parts.
- Discussing the definition of the **Technology Stack** (common software solutions to process the common model)
- **Outreach and organization** of this initiative across the industry, including multiple consortia.

4. Panel and workshop #2 (29th October, Asia/Europe time zone)

- Re-broadcast of the panel presentation: Presenting industry reactions from car manufacturers under the title "**Why does the industry need a Common Vehicle Interface?**"
- A slightly extended presentation to give an introduction to CVII.
- Workshops focused on deep-dive discussion of alignment of standards across already existing initiatives, including for example **SENSORiS, JASPAR**, and more.

The invitation to the activities hosted in the GENIVI AMM extends to **any industry participant who would like to join**

5. Follow-up W3C+GENIVI+industry seminar/workshop to organize project (November, *planning*)

- The agenda will be influenced by the outcome of the AMM workshops.