

# Common Vehicle Interface Initiative -- Home



Common Vehicle Interface Initiative is a joint outreach from [GENIVI](#) and [W3C](#) to the automotive industry, to involve [several other organizations](#) with the aim of aligning fragmented data modeling approaches into a [true industry standard](#).

## Recent

- **CVII** was a major theme in the **May 2021 Virtual All Member Meeting**. [Slides and recordings for the AMM](#) are available.

## All Resources

- ★ Quick introduction? Read the [project brief](#) and the shortened [first-introductions slide deck](#) which includes a diagram of active projects, and a map of related organizations for CVII Alignment.
- ★ Slide Deck! For more information, make sure you do not miss this full-featured [community slide deck](#)!
- ★ **COMPLETED: CVII Big Working Session** on 18 February 2021. If you missed it, the [slide decks are now posted](#).
- ★ **COMPLETED: GENIVI Virtual Member Meeting**, 26-30 October 2020 ( next one [coming up in May 4-7 2021](#)). All [presentations and video-recordings](#) from Oct 2020 are available.  
(Recommended start: [CVII OEM-panel](#))
- ★ Webinars!
  - The question "**Why automotive suppliers and data-focused companies need a Common Vehicle Interface Initiative**" was addressed in this **Automotive World Webinar**. You can [view that slide deck](#) or [view the recorded webinar](#)!
  - Focus on the services aspects of CVII and resulting Service Oriented Architectures was [presented in this webinar](#).
- ★ CVII and Software Architecture presentation and chat at **Automotive Tech Week - Megatrends conference**. There is a [recording here](#). And Ward's auto [wrote an article about it](#).
- ★ Join the [CVII General mailing list](#)

Contact [Gunnar Andersson \(GENIVI\)](#) and [Ted Guild \(W3C\)](#) for more information.

## Related sub-projects

- **CVII general Technology Stack meeting, meeting notes**  
Wednesdays, 1700 CET, [Zoom Link](#), Meeting number 934 5892 0850, pwd: **.6Xur9**  
Contact: [Philippe Robin](#) or [Gunnar Andersson](#)
- **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, pwd: **std.data1**  
Contact: [Gunnar Andersson](#) or [Ted Guild](#)
- **VISS v2 protocol development** (=web protocol for VSS data)  
Tuesdays 2PM EST / 2000 CET, 1 hour, please see [W3C Automotive Working group](#) (contact [Ted Guild](#))
- **Vehicle Service Catalog (VSC) & RPC protocol development** Bi-weekly, Mondays 1PM EST / 1900 CET, 1 hour, please see [W3C Automotive Working group](#) (contact [Ted Guild](#))
- **GENIVI Cloud & Connected Services** – reference architecture for Vehicle-to-cloud, (using standard data model) – see [project home page](#) for information
- **Android Automotive SIG - Vehicle HAL topic** is related since it also investigates integration of Android with a full vehicle data model (VSS) see [project home page](#) for information.

Feel free to also contact GENIVI's Technical Lead, [Gunnar Andersson](#) if you have questions about any topic.

## 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 standard data model to **functional interfaces**. **CVII** sets out to promote and drive the creation of **industry-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 a outreach-discussion to become a proper project, or collection of projects under the initiative.

## Upcoming CVII activities in GENIVI and W3C conferences:

(see [AMM presentations and video-recordings](#) for results)

### 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.

### 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 GENIVI AMM.

W3C members are encouraged to register to that event through their representative. 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 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**

★ Please see the [GENIVI 2020 Virtual AMM Registration](#) for a complete agenda. ★

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

- Agenda will be influenced by the outcome of the AMM workshops.