



**Data Expert Group  
Charter**

## Revision History

Version	Date	Author(s)	Reason for Revision
1	6 July 2022	Steve Crumb	Initial Creation
2	20 July 2022	Paul Boyes	Align with diagram
3	22 July 2022	Paul Boyes	Clarification and response to comments
4	22 July 2022	Paul Boyes	Accept Changes and Cleanup
7	16 August 2022	Paul Boyes	Updated organization graphic

## Type & Scope

The Data Expert Group (DEG) is chartered to provide COVESA a single entity in which best practices and common approaches for connected vehicle data and interfaces are discussed, documented, and where appropriate, proved. An industry driver is to facilitate, simplify, and reduce integration efforts on those things that are common to enable focus on new experiences, business opportunities and revenue streams.

The expert group will work under the oversight of the COVESA Technical Steering Team and will be organized to explore interactions with multiple Touchpoints (integration points) on its own as well as horizontally in support of other Expert Groups such as Electric Vehicle Charging Expert Group. Touchpoints out-of-scope shall be tracked by the Technical Steering Team and may, from time to time, require analysis based on work done in other regulatory or standardization bodies.

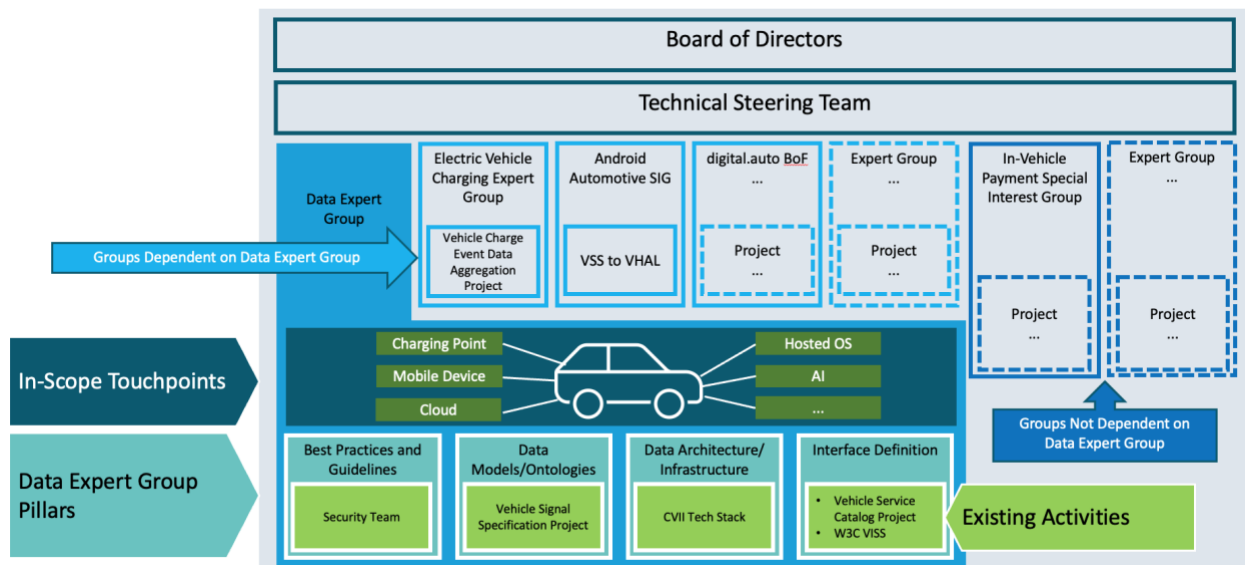


Figure 1- Data Expert Group Organization and Governance

The group shall be organized around four pillars with existing activities (e.g. groups, projects and initiatives) mapped in as determined by the Board:

- Best Practices, Guidelines & Governance
- Data Modeling / Ontologies
- Data Architecture / Infrastructure
- Interface Definition

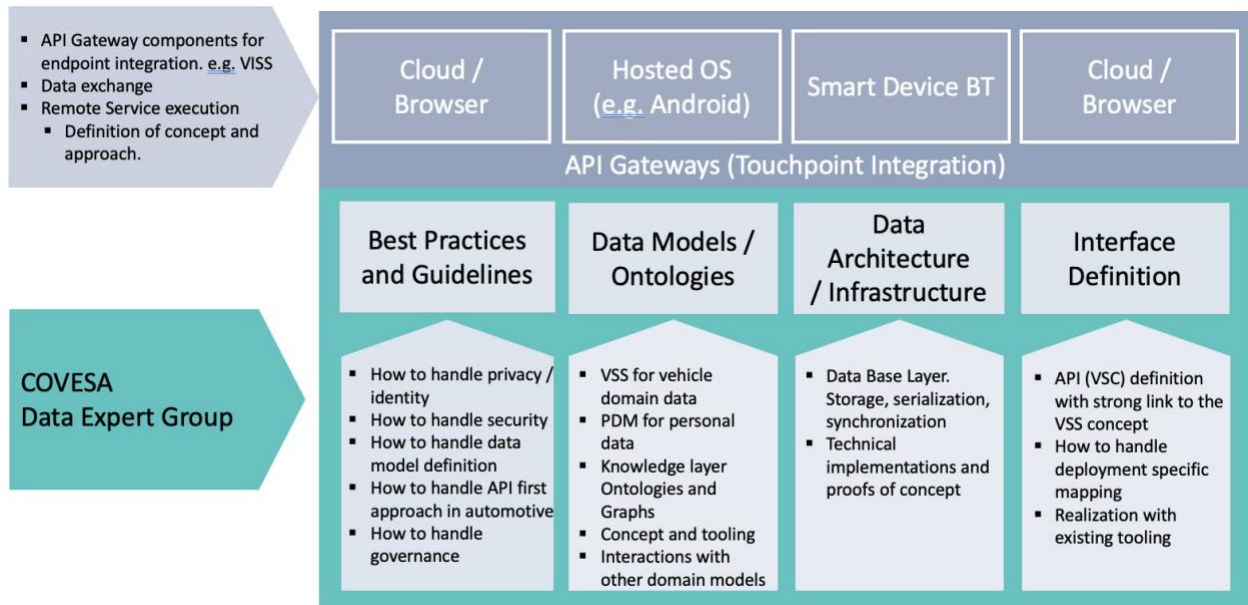


Figure 2 - Data Expert Group four pillars

Other Expert Groups will consult with, inform and consume work product from the four pillars. The four pillars and associated work products/output are the responsibility of the DEG including informing how they are utilized and consumed by other EGs. They are not the responsibility of the other Expert Groups. In addition, not all EGs will require use of output from DEG. As such, they will not require any dependency or interaction.

## Responsibilities

The responsibilities of the Vehicle Data Expert Group align to the four pillars of work as described below.

### Best Practices, Guidelines & Governance

The EG will host discussions around and document Best Practices, Guidelines and Governance of vehicle data including:

- process for analyzing requirements introduced by each endpoint determined to be in scope
- privacy and identity
- security
- data model definition
- API first development in automotive
- Governance of data models and interfaces

Includes the following existing activities:

- Security Team

### Data Models / Ontologies

- The EG shall host the Vehicle Data Project (VSS) ensuring a consistent vehicle data rule set & development of a vehicle data catalog
- The EG shall discuss and document a personal data model (PDM) and align with best practices of privacy and identity
- The EG shall host discussion on vehicle data concepts and related tooling
- The EG may discuss interaction with other domain models

Includes the following existing activities:

- Vehicle Signal Specification project

### Data Architecture / Infrastructure

- The EG shall host discussion on the database layer, storage, serialization, synchronization and related topics
- The EG shall host (or align to discussions in other organizations) on knowledge layer including ontologies and graphs
- The EG shall encourage technical implementations and proof of concept projects to test out architecture and infrastructure approaches

Includes the following existing activities:

- Common Vehicle Interface Initiative

### Interface Definition

- The EG shall host discussions on API (VSC) definition with strong link to the VSS concept
- The EG shall explore deployment specific mapping
- The EG shall encourage realization of interface definition with existing tooling
- The EG shall ensure alignment to COVESA VSC Project

Includes the following existing activities:

- Vehicle Signal Catalog
- World Wide Web Consortium – Vehicle Information Service Specification

### **Way of Working (WoW)**

The Vehicle Data Expert Group shall establish a cadence of group meetings (virtual, in-person, at member meetings) to advance the work described above. Notes of meetings shall be taken consistently and posted for reference by participating contributors. While the EG is primarily for COVESA members, non-members may be invited as experts to audit the work. Contributions made by non-members shall be made according to contribution guidelines defined in the COVESA IPR Policy.

The group may use projects in the COVESA GitHub to publish public facing releases of deliverables or proof-of-concepts developed by the group.

## **Projects**

The Vehicle Data Expert Group will have Projects. The existing VSS and VSC projects will become part of and governed by the EG.

## **Planned Output**

The Vehicle Data Expert Group shall have the following deliverables:

- Process document for evaluating Touchpoints and their interfaces with a vehicle
- Best practice document for vehicle data privacy and identity
- Document describing COVESA's governance model for an industry standard vehicle data catalog
- Consistent release cadence of the Vehicle Signal Specification (VSS)
- Data model for personal data
- Document describing the database layer including storage, serialization, synchronization and related topics
- Document describing the knowledge layer including ontologies and graphs
- Various proof of concept projects as required
- Document containing various API definitions, including deployment specific mapping (VSC)
- Projects that host tooling related to the EG scope.

## **Processes & Procedures**

The Expert Group Chair(s), together with the COVESA Community Director, shall determine the number, scope and cadence of group meetings. GitHub projects launched shall have at least 2 committed maintainers, unless they are strictly for proof of concept activities. Expert Group Chair(s) shall meet on a consistent cadence with the Technical Steering Team to report progress and escalate any matters.

## **Participants**

VSS Project Contributors; OTHERS TO BE DETERMINED

## **Chairs & Vice-Chairs**

OPEN FOR NOMINATION

Each pillar must be represented by a Chair. A Chair may represent multiple pillars as determined by the VDEG and Technical Steering Team.

Current Chairs, Co-Chairs and Leads from VSS, VSC, Security Team and Tech Stack will serve as EG leadership to start

