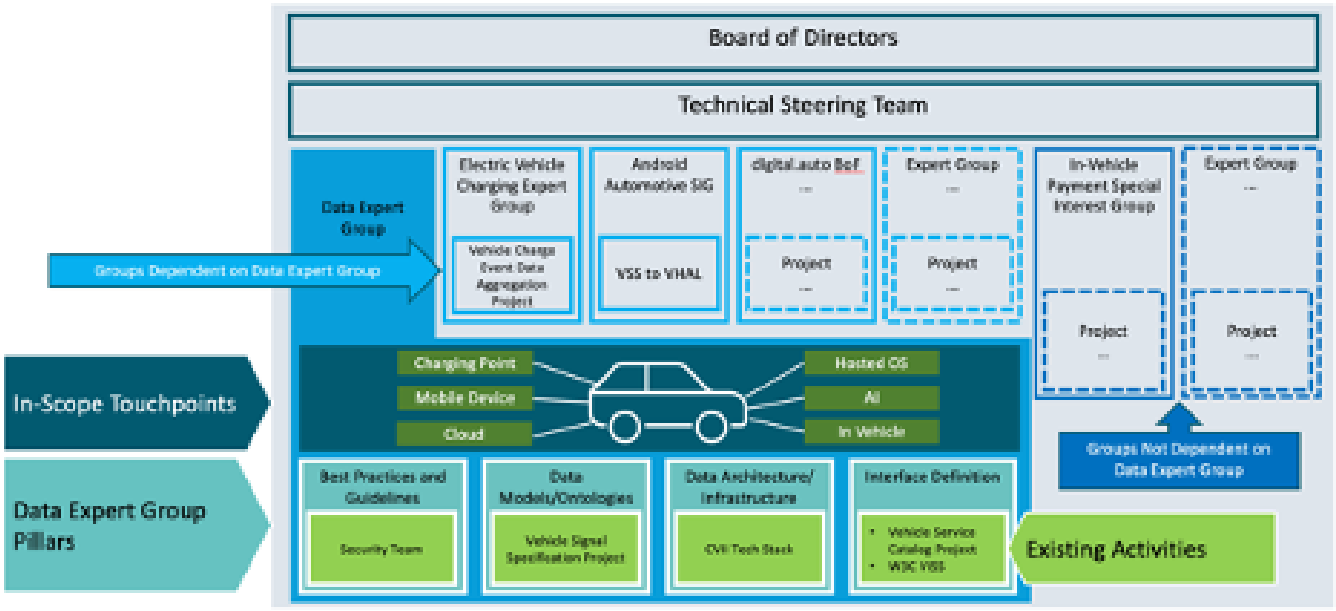
Data Expert Group

Overview

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.



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

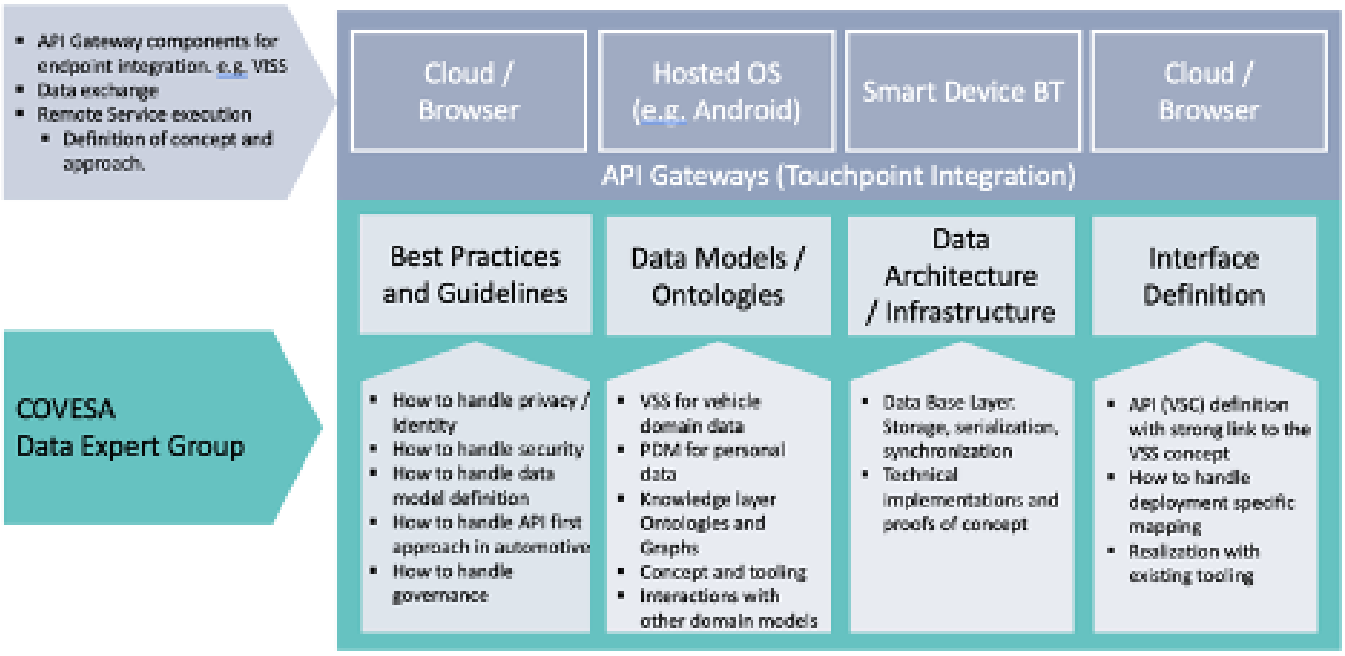


Figure 2 - Data Expert Group four pillars

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.

Charter

Board approved charter - 17 August 2022

COVESA Vehicle Data Expert Group Charter 8.pdf

Organization

Chairs

- Group Co-Chair- Erik Jaegervall
- Group Co-Chair - Adnan Bekan
- Best Practices -
    - Security and Privacy Lead - Joby Jester
- Architecture/Infrastructure Lead - Stephen Lawrence
- Data Models/Ontologies Lead - Adnan Bekan, Sebastian Schildt
- VSC Lead - Tim Grieshammer
- Interfaces Pillar

Participants

BMW, Bosch, Mercedes, Renasas, Geotab, Amazon, Capgemini

Communication Channels

COVESA Community Calendar

The COVESA Community Calendar contains all open COVESA meetings.

Calendar and Mailing List are only accessible with a Google account.

If you have not already done so you can create a Google account without changing their email address here:
https://accounts.google.com/SignUpWithoutGmail

Data Expert Group Mailing List (Google Group)

https://groups.google.com/a/covesa.global/g/data-expert-group

Slack Channels

Data Expert Group Channel:

https://covesacommunity.slack.com/archives/C03V2HRC8HM

Slack Channel

Join the data-expert-group channel on COVESA Community on Slack.

(Proposed) Projects

- Open1722 One Pager

Meetings and Way of Working

Meeting Schedule

The Data Expert Group normally meets every Thursday at 16.00 CET (which most of the year equals 7.00 AM PST). Call-in details in the COVESA Calender. If a meeting is cancelled it shall typically be removed from the calendar and/or communicated on Slack. The meeting is primarily intended for members of the Data Expert Group.

Ticket system

The Data Expert Group use a GitHub project for managing tickets. Access to the project is restricted. Contact Paul Boyes if you need access.

Location of created Artifacts

- Use COVESA Wiki as main starting point for storing/finding information
- (UML) Diagrams (source and generated):
  - Shall be stored in github, either existing COVESA repo or dedicated Data Expert Group repository (covesa-architecture?)
  - Create new repo first when needed
- Powerpoint, Word and similar documents:
  - Use a well defined file share location on google drive
  - Reference from wiki as needed
  - Folder created

Weekly Agenda

See the Weekly Agenda and Meeting Notes page

Meeting Notes, etc...

20 October 2022 - All Member Meeting Wrap-up Notes

Data Expert Group: Architecture and Infrastructure

- Architecture and Infrastructure Meeting Minutes
- Data Architecture / Infrastructure Pillar projects
  - Central Data Service Playground
    - Early planning
      - Artifact JSON-RDF Converter
      - Playground design artifact outline
    - Playground Development Notes
      - Embedded Databases (IoTDB, Realm etc)
      - VISSR (WAII) VISS Data Server
- Data Architecture Pillar Proposals
  - Central Data Service playground proposal
    - Central Data Service Playground outline
  - Design Pattern / Data Architecture documentation proposal
  - Proposal for the elaboration of a Data Architecture framework including a Knowledge Layer.
- Data Architecture Terminology (incl. logical components)
- Planning Pages
  - 2023 Autumn AMM (Data Architecture and Infrastructure)
  - 2023 Spring AMM (Data Architecture and Infrastructure) Workshop
  - 2024 Spring AMM Planning (Data Architecture and Infrastructure)

Data Expert Group Roadmap

Data Expert Group - Workshop 2023 - Q1

Data Expert Group - Workshop 20230428 - Spring AMM - In Person

Interface Definition

- Common Vehicle Interfaces - Capabilities
  - Climate Capability Details - VSS Alignment
  - Seat Capability Details - VSS Alignment
- Common Vehicle Interfaces Meeting Topics and Meeting Notes
  - Interface Blueprints
- Common Vehicle Interfaces - Use Cases
- Data Expert Group Workshops - Interface Pillar Alignment
- Data Models and Ontologies
  - Best Practices

Open1722 One Pager

Repositories under governance of Data Expert Group

Weekly Agenda and Meeting Notes