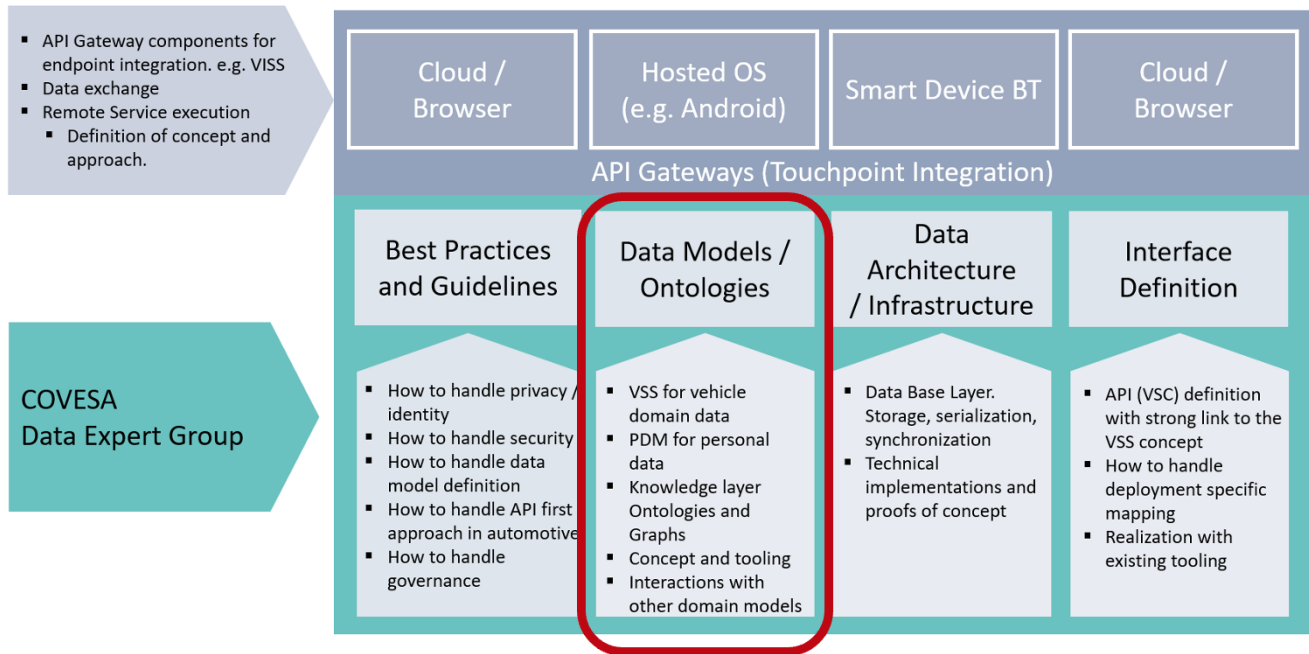


Data Models and Ontologies

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Overview



Responsibilities

The Data Models and Ontologies Pillar shall:

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

The Data Models and Ontologies Pillar may:

- discuss interaction with other domain models Includes the following existing activities:•Vehicle Signal Specification project

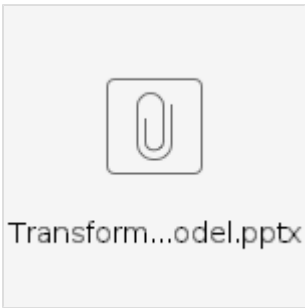
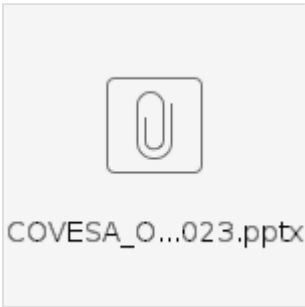

Activities


- [Vehicle Signal Specification](#)
 - [VSS Resources at a Glance](#)
 - [Documentation](#)
 - [GitHub](#)

Proposals and Presentations

The proposals below have been presented along the 2023 activities with the aim of restructuring (or extending) the data modeling tasks at COVESA.

| Proposal name | Author | Reference resources | Main idea(s) |
|---------------|--------|---------------------|--------------|
|---------------|--------|---------------------|--------------|

| | | | |
|---|-----------------------------------|---|--|
| Transforming from a vehicle centric data model to a domain agnostic information model | Ulf Bjorkengren (Ford) |  <p>Transform...odel.pptx</p> <p>Presented at COVESA AMM Porto (April 2023)</p> | |
| Defining the COVESA data modeling strategy and its associated artifacts | Daniel Alvarez (BMW AG) |  <p>COVESA_O...023.pptx</p> <p>Presented at COVESA AMM Porto (April 2023)</p> | <ul style="list-style-type: none"> • Use the right tool for the job. <ul style="list-style-type: none"> ◦ Do not try to cover multiple domains with only one tree. ◦ There are other types of data models that are more expressive than a tree. • Use an standard language to express cross-references (e.g., RDF). • Use ontologies to handle data integration and the identification of resources. • Provide the mechanisms to sync a tree to an ontology, and standardise the steps to follow. • Do you need a data model, or are you looking for a use-case specific data schema? • For more details, see the extended description. |
| GraphQL schema as contract | Daniel Wilms (SPREAD GmbH) |  <p>2023_08_...tion.pdf</p> <p>Presented at VSS data modeling group on 01 Aug 2023</p> | |

| | | | |
|---|--|---|--|
| <p>Integrating Vehicle Signals with VSS and Metadata</p> | <p>Alan Freedman (Ford)</p> | <p>Recording of Presentation</p> <p>Passcode: #+wbA5dy</p> <div data-bbox="662 262 1162 764">  <p>VSS Extensions a...al Ontology.pptx</p> </div> | |
| <p>A consolidated view on Vehicle Data Modeling at COVESA</p> | <p>Daniel Alvarez (BMW AG)</p> | | <ul style="list-style-type: none"> • A proposal that combines the features of the multiple approaches that have been presented so far into one. |