

Common Vehicle Interfaces Meeting Topics and Meeting Notes

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This page intends to contain the agenda for next meeting and notes from previous meeting.

General Agenda

- Welcome and Compliance statement

Welcome to the COVESA Common Vehicle Interfaces Meeting!

Antitrust

Before we begin, we would like to make clear that COVESA is committed to compliance with the antitrust laws in all of its activities, and that it expects all participants to similarly comply with the antitrust laws. We will not engage in--and members must refrain from--any discussion of, or understandings regarding competitively sensitive topics. If you have any doubts regarding whether a matter is appropriate for discussion, please consult with your antitrust counsel.

Open and Royalty-Free

Further, COVESA aspires to be an open and royalty-free organization. The discussions and contributions made during this session are governed by the [COVESA Intellectual Property policy](#). If you are unfamiliar with that policy, please review it in detail prior to making any contribution that reads upon a patent.

Agenda discussion - anything that needs to be added?

- Prioritized Topics:
 - [Capabilities](#) - create a list of common vehicle capabilities/function to be expose via api
 - [IFEX](#) (Interface Exchange) - a general interface description and transformation technology
 - [uServices](#) - definition of common vehicle services using protobuf as the interface definition language
 - [Vehicle Signal Specification over Data Distribution Service](#)
 - [Vehicle Information Service Specification \(VISS\)](#) - a service for accessing vehicle information, signals from sensors on control units within a vehicle's network. It exposes this information using COVESA Vehicle Signal Specification (VSS).
 - [Vehicle API](#) - will expose vehicle data as defined and described by COVESA's [Vehicle Signal Specification](#) to a variety of agreed upon touch-points in and out of the vehicle
 - [Hierarchical Information Model \(HIM\)](#)
 - [Interface Blueprint](#)

Agenda 2024-05-07

- Presentation from @Sven Schisler
 - [VSSandAbove.pdf](#)
 - Project proposal next week
- Project Updates

- VISS - will meet on Mondays at 4pm CET starting May 13.
- HIM and Commercial Vehicles - proposal submitted for review
- IFEX -
 - Versioning reviewed - all backward compatible currently
 - Leverage internal work done with [Thrift](#) perhaps
 - Interested in furthering work with AUTOSAR Automotive API
 - [Halim Ragab](#) request meeting with [Gunnar Andersson](#)
 - Cleaning up and improving quality
- CDSP
 - RemotiveLabs feeder
 - Knowledge Layer connector
 - Action Item: Request for use cases - please provide if you have ideas
- Website - will go live - please review
- AOSP
 - Push Notification
 - Ambient Lighting
 - To drive interfaces, emulator, playground
 - Entertainment
 - Payments
 - VHAL
 - Camera API - mentioned in AOSP group again

Agenda 2024-04-30

- Presentation from @Sven Schisler
 - [VSSandAbove.pdf](#)
- Project Updates
 - VISS - will meet on Mondays at 4pm CET starting May 13.
 - HIM and Commercial Vehicles
 - Evaluate if VSS works or new trees for Commercial Trailers
 - Align with current VSS contributors
 - IFEX
 - Clear versioning
 - CI work
 - Protobuf
 - Interface and layering

Agenda 2024-03-26

- IFEX
 - protobuf
 - GRPC
 - AUTOSAR
 - How to create appropriate layered def
 - <https://github.com/gunnar-mb/uservices/pull/1>
- VISS/VISSR
 - Ready to announce move to COVESA next week
- uServices
 - How do we reuse this of definitions? Interface behavior? Logic?

Agenda 2024-03-19

- Pick up where we left off last week.
 - Commodity catalog submissions - anything new?
- Walk through nascent backlog
 - <https://github.com/orgs/COVESA/projects/10>

Agenda 2024-03-12

- Contribute Commodity Catalog Call for Submission
 - Start with submissions on seating, cabin climate from BMW, Mercedes, Ford, GM
- Stronger Agenda - Potential Comments
 - Signal discovery at interface level
 - Blueprints
 - e.g. Errors. Ford has common errors
 - Commodity Service
 - never compared to VHAL
 - BMW - Connected VHAL properties
 - Start with Seating and HVAC

- Action Item: Provide Seating HVAC - Try to get Seating capabilities
 - Ping Gunnar about commits
 - Getting this offline and readiness
- IFEX - Overlay for AUTOSAR for ARXML VHAL/SOMEIP
- HIM Rule set
- User Identity
 - ActionItem: What work can we work on as a group, key fob related to vehicle signals and how related to user identity
 - Extension for key fob on VSS
- Authentication
- Some requests have OBD / Emmisions regulations
 - How is this handled in VISS and Kuksa
- Very specific topics like IFEX <> uServices
- Backlog in GitHub

Agenda 2024-02-27

- vsomeip
 - Get overview from GM.
- VISS repos
 - <http://github.com/COVESA/vehicle-information-service-specification> and <http://github.com/COVESA/vissr>
- IFEX Protobuf
- Central Data Service Playground mvp running
- AMM
 - VISS presentations/sessions
 - VISS overview, status, announcement
- blueprint brainstorm

Agenda 2024-02-20

- blueprint brainstorm
 - Paul to post a start
- VISS to COVESA
 - Automotive WG closed
 - create repos in COVESA and move from w3c
 - Names spec (VISS) and implementation (VISS-)
 - use respec for spec
- AMM
 - VISS presentations/sessions
 - VISS overview, status, announcement

Agenda 2024-02-13

- Licensing meeting this week with AUTOSAR - Discussion
- Blueprint brainstorm

Agenda 2024-02-06

- Licensing meeting this week with AUTOSAR
- VISS in progress of moving to COVESA
- IFEX and uServices
- Blueprint Patterns
 - Discovery Patterns
 - Notification
 - Request Response
 - Configurability
 - Ease of Use
 - Level of API - 3rd party app, lower level SDV, or...
- Next Week - Brainstorm Blueprints
 - Share Common Pain Points

Agenda 2024-01-30

- Licensing meeting this week with AUTOSAR
- VISS in progress of moving to COVESA
- IFEX and uServices

Agenda 2024-01-23

- IFEX and uServices - synch status
 - Protobuf "option" meaning discussed - it is used for configuration parameters that modify the behavior of the interface. Need to determine how this will manifest in IFEX.
- VISSv2
 - [Paul Boyes](#) to setup meeting regarding mechanical transfer to COVESA
- ARXML License Discussion
 - [Paul Boyes](#) to get concrete what can/can't be done

Agenda 2024-01-16

- Digital key - Ted
- IFEX and uServices - synch meeting -
- [Ted Guild](#) Start topic of identity in CVI - [Ted Guild Erik Jaegervall Halim Ragab](#) to bring initial [use cases](#) forward [Gunnar Andersson](#) happy to support if needed in IFEX
- [Halim Ragab](#) IFEX to/from uServices and IFEX to/from someip
- [Adnan Bekan](#) Android and Apple APIs - extract all functions and list for discussion
- [Paul Boyes](#) to arrange for moving VISS to COVESA
 - @remotive labs working on feeder opportunity for work
 - identify shared work in VISS
- Playground forming container with VISS
 - Mongo adding Realm
 - BMW working on knowledge layer
- Scoping catalog work
- blueprints look at existing initiatives
- Identity -

Agenda 2023-11-28

Prioritized Topics:

- Capability Lists Review
- IFEX and uServices
- ACTION ITEM: [Adnan Bekan](#) Look at Android 14 - Vehicle Attributes and APIs for capabilities (Seats, Steering Wheel....) Link
- ACTION ITEM: [Melissa Morris](#) Melissa to do the exact same thing for Seats as HVAC - Week of Dec 5
- ACTION ITEM: @everyone VSS and IFEX discussion read doc
- ACTION ITEM: @everyone Review capabilities outlined in uServices
- Goal: [Gunnar Andersson](#) , [Paul Boyes](#) , @everyone Agreed common/computable representation/description of common capabilities at a logical level
 - Is IFEX mature enough to define common capabilities
 - Attempt to define HVAC interfaces in IFEX
- Domain Priority
 - HVAC
 - Seats
- Playground: @everyone - Provide examples of what is needed input in Playground. What examples would be useful? What is the goal of that example?
 - Try it out and get involved.
- What representation? Why? Show a reference implementation on [Playground](#)

Agenda 2023-11-21

Prioritized Topics:

- Capability Lists Review
- IFEX and uServices
- ACTION ITEM: Melissa to do the exact same thing for Seats as HVAC - Week of Dec 5
- ACTION ITEM: VSS and IFEX discussion read doc
- ACTION ITEM: Review capabilities outlined in uServices

Agenda 2023-11-14

Prioritized Topics:

- Capability Lists Review

Meeting notes 2023-11-7

- Attendees
 - [Adnan Bekan](#)
 - [Halim Ragab](#)

- [Magnus Feuer](#)
 - [@Mellisa Morris](#)
 - [Richard Fernandes](#)
 - [Shareef Hakim](#)
 - [Stephen Lawrence](#)
 - [@Swetha Patil](#)
 - [Ulf Bjorkengren](#)
- Prioritized Topics:
 - Provide overview and background to new attendees
 - Re-sync on next steps
 - Discussion of how best to align
- Action Items
 - [Paul Boyes](#) and others Identify diagram(s) to serve as simple stack diagram for group reference.
 - @OEMs/Everyone Bring capability lists to next weeks meeting in whatever format you have them.
 - Current lists include:
 - [Common Vehicle Interfaces - Capabilities](#) (you may add another section/create another page, link... here. The main thing is to provide your list)
 - <https://github.com/COVESA/userservices>
 - @everyone review previous work
 - [Data Expert Group Workshops - Interface Pillar Alignment](#)
 - Presentation Links within:
 - [IFEX-quick-what-and-why-v2.0.pdf](#)
 - [COVESA VSS OpenAPI](#)
 - AMM Presentations about interfaces
 - From Concept to Reality: How Data-Centric Vehicle APIs Shape Software-Defined Vehicle
 - [The Hierarchical Information Model \(HIM\) and an Interface Using It](#)
 - [Beyond the Car - Advancing Commercial Vehicles - The Transforming Software to Meet the Needs of Owners, Drivers and Fleet Managers](#)
 - [uServices - A Step towards a standardized vehicle Interfaces for SDV](#)
 - Links and text posted during meeting



Chat

You (Nov 7, 2023, 8:12AM)

<https://github.com/COVESA/userservices>

<https://github.com/COVESA/ifex>

Ulf (Ford) (Nov 7, 2023, 8:15AM)

https://github.com/COVESA/hierarchical_information_model

Stephen Lawrence (Nov 7, 2023, 8:23AM)

<https://wiki.covesa.global/display/WIK4/Central+Data+Service+Playground>

Stephen Lawrence (Nov 7, 2023, 8:52AM)

Original diagrams from MBition [https://wiki.covesa.global/display/WIK4/Vehicle+Service+Catalog+%28VSC%29+-+Common+Interface+Description+Model?preview=/22643862/22644665/covesa_amm_2022_-_vsc.pptx#VehicleServiceCatalog\(VSC\)CommonInterfaceDescriptionModel-PresentationsfromApril2022AllMemberMeeting](https://wiki.covesa.global/display/WIK4/Vehicle+Service+Catalog+%28VSC%29+-+Common+Interface+Description+Model?preview=/22643862/22644665/covesa_amm_2022_-_vsc.pptx#VehicleServiceCatalog(VSC)CommonInterfaceDescriptionModel-PresentationsfromApril2022AllMemberMeeting)

Stephen Lawrence (Nov 7, 2023, 8:59AM)

There is some focus on IDLs as well in that presentation but that is because at the time (start of project) people expected it to be addressed.

Meeting notes 2023-10-24

- Prioritized Topics:
 - Gunnar looking at converting uServices
 - Blueprints
 - Looked at <https://apiblueprint.org/>
 - uServices - look to extract patterns, look at options when Halim back
 - business logic separated from deployment
 - Number of rows... Number of seat rows? Constant or set at design
 - Ford - Meet Shareef/Ford at Nov 7 during regularly scheduled meeting

Meeting notes 2023-10-24

- Prioritized Topics:
 - Blueprint
 - <https://cloud.google.com/apis/design>
 - Need to capture high level "what matters"
 - Stay on high level
 - Align with VSS structure
 - AI: Adnan to put together outline on wiki

- Ford - Meet with on Nov 2
 - Blueprint
 - Catalog/Capabilities
 - Meet Nov 2 from 9-10am ET
- BMW to provide feedback on IFEX
- Apple
 - Can we get API documentation from Apple?
 - AI: Halim and Adnan to work internally
- Google
 - Followed up
 - We need to get back to them when we have something
- Automotive API (formerly Vehicle API)

Meeting notes 2023-10-17

- Prioritized Topics:
 - AMM Review
- Agenda discussion - anything that needs to be added?
- AMM review
 - Define scope of each project,
 - project interconnectivity/interplay
 - Participants
 - Action: Paul to start the above
 - Action: Ford to find rep
 - Action: Reach out to Honda
 - Action: Reach out to Hyundai
 - Proposed: once a month Asia friendly model. Do more discussions in writng. Slack, GitHub, Wiki...
 - Direct contribution needed
 - IFEX looking at translation to uServices and vice versa
 - Action: GM to meet with Mbition re IFEX
 - Catalog OpenAPI and/or uServices and/or IFEX or HIM
 - Simple easy to follow. Guidance to follow. How to document?
 - Blueprint for how API's should be described
 - How granular?
 - Governance
 - Action: Get Google documentation
 - Coherency, safety security, performance, access control
 - Action: Start outline
- Prioritized Topics:
 - Capabilities
 - IFEX
 - uServices
 - DDS
 - VISS
 - HIM
 - Vehicle API
- Prioritized topics for next meeting

Meeting notes 2023-09-05

- Prioritized Topics:
 - Discussed How to handle this Common Vehicle Interfaces meeting. Agreed to start listing service capabilities.
 - Action Item: [Halim Ragab](#) to start a [Capabilities](#) page and [Usecases](#) page
 - AMM:
 - Block out time for discussions
 - Discuss Use cases, why common vehicle interfaces matter?
 - Integrating with the vehicle
 - Mapping to VHAL
 - Capabilities
 - Report on and discuss [page/doc](#)
 - Meet with Google to discuss integration via common interfaces/services
 - Create good example and present prior to AMM