

AMM Planning October 10-12 2023 - Technical Session and Workshop Proposals

Obsolete - for final slides see [COVESA All Member Meeting ~ October 10-12, 2023](#)

Note: Another planning page with restricted access exists at [Technical Track - Working Internal planning page for COVESA AMM October 2023](#)

Session Proposals

Proposed Topic /Session Title	Abstract	Requested Duration	Requested Day	Proposed By	Comments
BMW & MongoDB VSS-based Data Middleware PoC - Tiered Sync	In this talk, we will share the PoC BMW and MongoDB have been working on regarding the creation of a data middleware to enable a connected vehicle experience for the end user, and the use of VSS for its development. We will review the data middleware requirements, the iOS application and its connection to the cloud. We will also share some challenges found along the way and hope to open up the conversation for further collaboration.	30 min	Stephen Lawrence discussion in the Data Arch call suggests at the start of the Thursday AM Data Architecture workshop	Arnaldo Vera Christian Muehlbauer	
Discussion of community led Central Data Service reference playground	<p>This session is intended to advance discussion of a <i>community</i> led reference implementation of a Central Data Service playground.</p> <p>The session will be split into two parts</p> <ul style="list-style-type: none"> Part 1: Readout of the proposal as a starting point for discussion and to build understanding (9:30-9:45/50) Part 2: Workshop the base components and the possibilities for 'spins' using it, e.g: <ul style="list-style-type: none"> Data models: knowledge layer, data models, VSSo Interface pillar: IFEX, service definition, Vehicle API/Autosar Data Architecture: Sync, reasoning at the edge etc. <p>Note: This is related to the BMW/MongoDB session above. The topic is an evolution towards a public reference playground as previously discussed in the Spring AMM in Porto and the Data Architecture and Infrastructure pillar.</p>	1 hour	Thursday AM during Data Architecture workshop	Stephen Lawrence Christian Muehlbauer	A project proposal is planned to be written ahead of the AMM
OTA updates with Realm	In this talk, we will share how you can build tools for monitoring the status of the OTA update process. This can include real-time insights into update delivery, success rates, and potential issues. The vehicle and the backend establish a handshake mechanism that streamlines acknowledgments along the OTA process	30 min		Arnaldo Vera	
Creation within the <i>community</i> of a set of documentation, patterns, best practices, cookbooks and HowTos for Covesa technology, with an initial focus on VSS and it's eco-system.	Workshop the creation and publishing of technical documentation that supports scaling and adoption of Covesa strategic vision. Be it design patterns, data architecture, cookbooks and howtos.	30 - 45/60 mins depending on how much is workshop	Thursday AM during Data Architecture workshop. Following discussion of the Central Data Service playground	Stephen Lawrence	Design Pattern / Data Architecture documentation proposal
HIM and an interface using it	The Hierarchical Information Model (HIM) is an evolution of the COVESA Vehicle Signal Specification (VSS) that adds the ability to have multiple trees representing different domains, and representing different types of information. Besides the information type "resource data" that is what is represented by the VSS tree, HIM also supports "service data" where microservices represented by procedures with input and output parameters can be defined. Analogously to VSS, the HIM model does not specify an interface that exposes this information, it leaves this to separate interface specifications. One candidate for this is an evolution of the W3C Vehicle Interface Signal Specification version 2 (VISSv2), that in its current version uses VSS for modelling the data. It is the presenter's view that this interface can with small modifications be extended to use HIM instead of VSS. This would provide a single interface that can be used to access both information types, that will possibly also be standardized in W3C. The presentation will give the presenter's view on how this extension could look like.	60 min		Ulf Bjorkengren	
Vehicle data server southbound architecture	An architecture is described where the southbound side of a vehicle data server utilizes a data store and a feeder to realize the interaction with the underlying vehicle subsystem.	45-60 min		Ulf Bjorkengren	
DDS and Data-Centric Communications	Overview of DDS (Data Distribution Service), its applicability to VSS, and how data-centric communications can enable interoperable ecosystems of tools and components with vast scalability; an opportunity for COVESA.	60 min		Neil Puthuff	
VSS in-vehicle: KUKSA State of the Union	(Recent Updates and Roadmaps, "The return of VISS", Android options)	45 min	Wednesday	Sebastian Schildt	

CatenaX open data ecosystem for the automotive industry using open standards https://catena-x.net/en/vision-goals	CatenaX is looking into VSS usage for some of their use cases, and is interested to present on AMM speaker tbd - will be from Catena-X consortium tentative, contact Sebastian Schildt	45	Wednesday	Sebastian Schildt	
Easy Prototyping with ProtoPie and VSS	Show how designers can get access to real vehicle data when prototyping - by using VSS it becomes easy to connect and reuse between OEMs	20	Wednesday	Emil Dautovic	