

COVESA All Member Meeting ~ April 26-28, 2022

Slide Decks and Videos

Tuesday, April 26, 2022

Time	Session Title	PPT Slides links	Video links	Speakers/Company
13:00	COVESA Welcome	1300_Day1_Crumb_Welcome.pptx	COVESA AMM Welcome - Steve Crumb	Steve Crumb COVESA
13:15	COVESA Member Keynote	1315_Day1_Jones_Member_Keynote.pptx	COVESA AMM President's Keynote - Matt Jones	Matt Jones COVESA
13:45	OEMs Discuss the Future of Connected Vehicles	1345_Day1_OEMs Discuss Future of Connected Vehicles final.pptx	OEMs Discuss the Future of Connected Vehicles	Katrin Matthes, Renault Group; Graham Smethurst, BMW; Matt Jones, Ford Motor Company
15:00	Business Cases for Connected Vehicles	1500_Day1_Business Cases for CV_final.pptx	Business Cases for Connected Vehicles	Ansgar Lindwedel, Robert Bosch GmbH, Pedro Pacheco, Gartner, Thomas Wurdig, Mercedes-Benz AG, and Christoph Ludewig, Geotab, Inc.
15:50	Future Business Models for Commercial Vehicles /Transportation Services	1550_Day 1 Fleet Panel Slides_Todd Offer 4-26.pptx Geotab COVESA AMM 2021 Fireside Chat [Public] - Google Slides.pdf	Future Business Models for Commercial Vehicles /Transportation Services	Ted Guild, Geotab, Inc. and Todd Offer, Irdeto
16:30	COVESA Project Status and Engagement	1630_Project_Status_Final_AMM202204_2.pptx	COVESA Project Updates - Paul Boyes	Paul Boyes, COVESA Community Director
17:00	COVESA Marketing Team Update	1700_Day 1_Q1 2022 Marketing Update v3.pptx	COVESA Marketing Team Update - Brandy Goolsby	Brandy Goolsby, Wind River

Wednesday, April 27, 2022

Time	Session Title	PPT Slides links	Video links	Speakers/Company
09:00	COVESA Board Roundtable	N/A	COVESA Board Roundtable	Eileen Davidson, Ford Motor Company, Brandy Goolsby, Wind River, Gerald Spreitz, Robert Bosch GmbH
09:30	A Regulatory Context for Vehicle Data	0930_(01) Day 2 - The ExVe Concept and Standards_Rev.pptx 0930_(02)Day 2 Favreau_COVESA AMM - EU regulatory landscape.pptx 0930_(03)Day 2_PFA data access position - PFavreau v2.pptx	A Regulatory Context for Vehicle Data	Jean-Francois Huere, ISO and Philippe Favreau, Renault Group
10:30	Introduction to Vehicle Signal Specification	COVESA Intro to VSS_AMM2022 Final 3.pptx	Introduction to Vehicle Signal Specification	Thomas Spreckley, Robert Bosch GmbH, and Paul Boyes, COVESA Community Director
10:30	Vehicle Services Catalog (Working Session)	covesa_amm_2022_-_vsc.pptx	Work shops were not recorded	Tim Grieshammer, MBition GmbH
10:30	Unlocking the Future of Vehicle Services <i>(Video is poor quality, we apologize for this)</i>	1030_Day 2_Zoom Unlocking Future_NiclasG.pptx 1030_Day 2_Dirk Slama_Unlocking.pptx 1030_Day2_Unlocking the Future of Vehicle Services-Richard Saady.pptx	Unlocking the Future of Vehicle Services	Richard Saaady, Ricardo, Dirk Slama, Robert Bosch GmbH, and Niclas Gyllenram, Aiden Automotive Technologies
11:10	VSS and VSS Ontology – Standardized Description of Vehicle Signals for Future Data-Driven Services	2022_04_26_amm_vss_intro.drawio.pdf	VSS and VSSo Ontology Session	Daniel Wilms, BMW and Dr. Felix Lösch, Robert Bosch GmbH
11:10	User Experience in Connected Vehicles <i>(Video is poor quality, we apologize for this)</i>	1110_Day 2_ALTIA_Designing and Deploying the Future Automotive Cockpit Experience_COVESA-AMM April 2022_pm_v1.pptx CHARLY_Cinemo_Re-imagining home entertainment for the connected car.pptx 1110_Day 2 User Experience_ramses.pptx	User Experience in Connected Vehicles	Phillip Michel, Altia, Charly Lippoth, Cinemo, Daniel Haas and Violin Yanev, BMW Group, Klaus Gafner, Paradox Cat GmbH

13:30	Alignment Opportunities between AUTOSAR & COVESA	AUTOSAR@COVESAAMM_2022.pptx	Alignment Opportunities between AUTOSAR & COVESA	Michael (Niklas) Niklas-Höret
14:15	AASIG Workshop	No slides available for this session	AASIG Workshop Video	Piotr Krawczyk & Stefan Wysocki, TeitoEvry and Krill Skidanov, EPAM Systems
14:15	digital.auto Introduction			
14:45	digital.auto Digital Exploration			
15:30	digital.auto Value Stream Management			
16:00	digital.auto Market Aspects, Value Proposition	DigitalAutoSlidesV2.pptx	Not recorded	
16:30	Android Automotive OS Problems & Opportunities		Android Automotive OS Opportunities & Problems - A Discussion	Piotr Krawczyk, TietoEvry Stefan Wysocki, TietoEvry Thomas Spreckley, Robert Bosch GmbH Paul Boyes, COVESA Community Director
16:30	Software Defined Vehicle BoF	COVESA SdV BoF 27Apr2022.pdf	Software Defined Vehicle BoF	Steve Crumb

Thursday, April 28, 2022

Time	Session Title	PPT Slides links	Video links	Speakers/Company
9:00	CVII Working Session - VSS and VSC Alignment	vss-disc.pdf	CVII Working Session - VSS & VSC Alignment	Erik Jaegerwall, Bosch Tim Grieshammer, MBition GmbH
10:15	CVII Working Session - VSS Layers	vss-disc.pdf		Erik Jaegerwall, Bosch
11:00	CVII Working Session - VISS and W3C Alignment	1100_Zoom_Geotab VISS at COVESA AMM 2022[Pub].pptx	CVII Working Session - VISS and W3C Alignment	Ted Guild & Ulf Björkengren
13:30	CVII Working Session - Tech Stack (VSS Data Stores, Feeders and Servers)	CVII Tech Stack workshop (VSS data stores and servers).pdf	Not recorded	Guided by Stephen Lawrence, Renesas, CVII Tech Stack Lead

VIRTUAL SESSIONS

Wednesday, April 27, 2022 (IVP/EV Charging Track)

COVESA In-Vehicle Payment / EV Charging Workshop	Video Links	PPT Slides links	Speakers
Introduction and Overview / Update from last AMM <ul style="list-style-type: none"> John Moon - Wayray 	https://ga.wistia.com/medias/6lat4vqqvo	COVESA PPT John Moon Intro.pptx	John Moon, (COVESA IVP/EV SIG Lead)
Title: A Perfect Storm – Challenges Ahead for EV <p>Abstract: As the market and demand for electric vehicles is transforming OEMs, related industries and governments are seeing challenges and new opportunities to support and keep up with the rapid pace of change. Materials for batteries, lack of power infrastructure, needed platforms and systems for EV charging, legislation & regulations for EV infrastructure are some of the issues facing OEMs ability to deliver on the promise but where they do not directly make decisions. On one hand, no ONE entity can solve the problem by themselves, because these are all very fragmented industries, with no huge dominant global players, and on the other hand, the OEMs are used to owning/controlling their value chain and are still following that old model where they want to solve it by themselves. The ONLY way we can solve these problems is by finding technologies and business models that encourage and enable collaboration. Organizations such as COVESA have the potential to play an important role in incubating cross-company / industry initiatives to tie together vehicles, power grids, charging service providers, and payment solutions.</p>	https://ga.wistia.com/medias/wr80n5wm8s	COVESA NiclasG_AMM2022.pptx	Niclas Gyllenram, CEO @ Aiden
Title: Commerce for Connected Vehicles - A Paradigm Shift <p>Abstract: Don't just enable the eco-system, BE the eco-system and capture the greater sum of revenue with the same effort. Malik Velani, former Director, Global Business Development at Paypal and co-founder of Commerce orchestration startup, Preczn Inc discusses how OEM's can take a fintech approach to monetizing payments for good & services related to the vehicle.</p>	https://ga.wistia.com/medias/6egmn4hwth	Preczn for Connected Cars.pdf	Malik Velani @ Preczn
Title: The pains (and fixes) of Public Charging an EV in Europe and North America <p>Abstract: There is no turning back the EV boom. In North America and Europe, both OEMs and governments are pushing for a switch to electric vehicles. Yet, charging these vehicles in public - a vital part of the user experience - is still unbelievably complicated. In this presentation, Adam will use 10+ years of experience in the EV industry to explore the changing needs of EV drivers as we transition from 'pioneer' to mass market, as well as the common pain points that the industry needs to solve. This includes finding a charging point, to 'roaming', to digital payments and the convergence of charging and parking.</p>	https://ga.wistia.com/medias/tt0vd4kcz	Parkopedia Covesa.pdf	Adam Woolway @ Parkopedia

<p>Title: Enabling the global services marketplace with a single location-based API</p> <p>Abstract: Intuitive, easy, and secure in-vehicle payments present a huge opportunity for OEMs and service providers to offer a better, more convenient experience for their customers. However, to date there hasn't been a "killer app" to make the adoption and continuous use of that functionality worth the effort for consumers to onboard, activate, and pay at scale using the vehicle. In this presentation, Dr. Evgeny Klochikhin, CEO of Sheeva.AI will discuss the evolving in-vehicle payments market, including advancements in promising geo-location technology to enable the vehicle-based digital wallet for tolling, fueling, EV charging, parking, curbside pickup, and drive-through. In addition, this novel technology can offer enhanced fleet and asset management applications and extra benefits for the ADAS systems. These applications can be the best approach to monetize in-vehicle connectivity with real-time customer value.</p>	<p>https://ga.wistia.com/medias/r33c4qbzxe</p>	<p>Sheeva COVESA Presentation 4-27-22.pptx</p>	<p>Evgeny Klochikhin CEO @ Sheeva.ai</p>
<p>Title: (Panel) Global EV Growth - Building for the new EV demand</p> <p>Abstract: The state of the EV charging has quite a few actors: OEMs, Tier 1 Suppliers, Power Utilities, Infrastructure Hardware Manufacturers, Charge Point Operators (CPO), and even Big Tech with fundamentally few standards beyond the hardware interfaces. Vertically integration OEMs (read Tesla) can create their own networks but that will create redundancy and would never create coverage at scale. Speakers will bring their industry background and expertise to this panel discussion to discuss their views on the challenges, opportunities and solutions for OEMs and EV infrastructure suppliers.</p>	<p>https://ga.wistia.com/medias/xvqdiblk m0</p>	<p>No Slides just a panel talk</p>	<p>Moderator: John Moon</p> <ul style="list-style-type: none"> • Niclas Gyller, CEO, AI DEN • Adam Woolway - Head of EV, Parkopedia • Evgeny Klochikhin - CEO, Sheeva.AI

COVESA - Virtual Cybersecurity Workshop Track	Vid eo links	PPT Slides links	Spea kers
<p>Title: GENIVI Security Team Overview:</p> <p>Abstract: COVESA's Automotive Cybersecurity team continues to lead and provide our membership and greater community with an overview of the cybersecurity team initiatives, how you and your organization can become engaged, and lastly what to look forward to in today's cybersecurity workshop track</p>	<p>https://github.com/media85w5bk4db6</p>	<p>Welcome-Joby-COVESA_Spring_AMM_cybersecurity.pptx</p>	<p>Joby Jester, (COVESA Cybersecurity Team Lead /Capgemini)</p>
<p>Keynote Title: Trust and Security of Software in Connected Vehicles</p> <p>Abstract: Code is new fuel for a modern car. It is more dependent on code than petrol. Nowadays, a car is powered by a network of 70 to 100 electronic car units (ECUs) which constantly communicate over Control Area Network (CAN). Indeed, it takes 100 million¹ lines of code for a modern car to function, and it is expected to rise to 300 to 500 million. In contrast, a Boeing 787 Dreamliner runs on 12 million lines of code².</p> <p>The complexity of software in a car and multi-tier supply chain have raised many challenges for quality, functionality and security testing. Moreover, WP.29 regulations by UNECE mandates frameworks essential for connected cars in the area of cyber security and software updates.</p> <p>asvin has designed and developed a novel solution to improve overall DevOps process integrity testing using the distributed and decentralized technologies. It consists of Distributed Software Bill of Materials (D-SBOM)⁴ and secure software supply chain services.</p> <p>The D-SBOM service aims to pioneer creation of a list of software constituents, its storage and retrieval using the distributed ledger technology (DLT). Additionally, the objective of secure software supply chain services is to trace the track of software from its development to installation. Each event in the software lifecycle will be recorded on a distributed ledger.</p> <p>Both services will help in establishing an unbroken chain of ownership, software provenance, transparency, security, trust and integrity for DevOps process in automobile industry. A ledger is inherently immutable and secure. Therefore, the solution will strengthen and streamline the process of auditing and compliance adherence set by government and regulatory institutions.</p>	<p>https://github.com/media8z9qz1rhxy</p>	<p>Rohit-Bohara Trust and Security of Software in Connected Vehicles-COVESA A22.pdf</p>	<p>Rohit Bohara - Asvin</p>
<p>Title: VSS Meets NDN: Securing Vehicle Communications through Named Data Networking</p> <p>Abstract: The Vehicle Signal Specification (VSS) is a standardized vehicle data specification that allows the automotive industry to use a common naming space for communication and abstract underlying vehicle implementation details. A standardized vehicle data specification, however, has significant additional benefits: it can enhance security and efficiency in vehicle communications when coupled with Named Data Networking (NDN) that communicates using names at the network layer rather than endpoint addresses. The use of names enables cryptographically binding content to unique names to build a strong security foundation by only allowing valid content to be delivered and enables efficient content delivery (both unicast and multicast) by allowing the network to locate the nearest source of the requested content and suppress duplicate requests and data. As implemented in NDN, standardized names result in far simpler application implementations by reducing communication complexity and eliminating all address allocation and management functions such as DNS.</p>	<p>https://github.com/btomh344nh</p>	<p>2022-COVESA-A-Christos-Papadopoulos.pptx</p>	<p>Dr. Christos Papadopoulos - Professor, University of Memphis</p>
<p>Title: Keep your vehicles safe by continuously managing the software vulnerabilities</p> <p>Abstract: Fuzz Testing? Pen Testing? Vulnerability Scanning? Functional Testing? Verification Testing? Whether you're an automaker or supplier, you'll inevitably need to get comfortable with security testing as ISO/SAE 21434 permeates the automotive supply chain. In this talk, we'll walk through each type of testing to discuss what it is, why it's done, and when/how to do it. Finally, we'll end this talk with a few recommendations for ways you can get ahead of the curve and start thinking about automating cybersecurity testing for ISO/SAE 21434</p>	<p>https://github.com/media8nxf7kn</p>	<p>Car Alert - COVESA AMM 2022-Gilad.pptx</p>	<p>Gilad Bandel (Cymotive Technologies)</p>
<p>Automotive Privacy Update for 2022</p> <p>Abstract: There is more data than ever being collected by the OEMs, Tier 1s, and Application and OS providers than ever. Who is responsible for the security and safety of this data? Opt-in or opt-out? Have a seat, grab your tinfoil hats, and listen in as our Security Team Chair, Joby Jester, and resident privacy expert, Jennifer Dukarski, discuss the automotive privacy landscape of 2022 including the biggest issues, regulations, and offer suggestions towards protecting the personal and confidential information on the vehicle.</p>	<p>https://github.com/media8psof8jla3r</p>	<p>No Slides - Just Discussion</p>	<p>Joby Jester and Jennifer Dukarski - Butzel Long</p>