

# COVESA All Member Meeting ~ October 10-12, 2023

| Tuesday, October 10, 2023   |            |          |                                                                                                   |                                                                          |                                                                         |                                                                                                                           |
|-----------------------------|------------|----------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Date                        | Start Time | End Time | Title                                                                                             | Slides                                                                   | Videos                                                                  | Speaker(s)                                                                                                                |
| 10/10/23                    | 1:00 PM    | 1:30 PM  | COVESA for Newcomers                                                                              | <a href="#">Day 1 Newcomers_Steve Crumb.pdf</a>                          | N/A                                                                     | Steve Crumb, COVESA                                                                                                       |
| 10/10/23                    | 1:30 PM    | 2:00 PM  | COVESA Members Keynote                                                                            | <a href="#">Day 1 Matt Jones_Presidents Welcome.pdf</a>                  | N/A                                                                     | Matt Jones, President, COVESA                                                                                             |
| 10/10/23                    | 2:00 PM    | 2:30 PM  | Understanding and Engaging in COVESA Expert Groups & Projects                                     | <a href="#">Day 1 Community Dir_PBoyes.pdf</a>                           | N/A                                                                     | Paul Boyes, COVESA Community Director                                                                                     |
| 10/10/23                    | 2:30 PM    | 3:15 PM  | Intro to Vehicle Signal Specification (VSS)                                                       | <a href="#">Day 1_ Intro to VSS_ABekan.pdf</a>                           | N/A                                                                     | Adnan Bekan, BMW Group                                                                                                    |
| 10/10/23                    | 3:00 PM    | 4:00 PM  | Emerging Automotive Technologies: Insight on the Legal Issues and Risks of AI and Data Collection | <a href="#">Day 1 1530 to 1600_JDukarski.pdf</a>                         | N/A                                                                     | Jennifer Dukarski, Butzel                                                                                                 |
| 10/10/23                    | 4:00 PM    | 4:30 PM  | Accelerating IoT Development: Leveraging VSS at the Edge                                          | <a href="#">Day1_1010-1600_AID_Aman_Konark.pdf</a>                       | N/A                                                                     | Aman Gupta & Konark Verma, DENSO                                                                                          |
| 10/10/23                    | 4:30 PM    | 5:00 PM  | Unlocking the Potential of SDV: The Significance of Data and Connectivity (Panel)                 |                                                                          | N/A                                                                     | Brian Carlson, NXP - Graham Smethurst, BMW Group, Mike Robertson, Elektrobit - Steve Bell, Informa Tech Automotove Group. |
|                             |            |          |                                                                                                   |                                                                          |                                                                         |                                                                                                                           |
| Wednesday, October 11, 2023 |            |          |                                                                                                   |                                                                          |                                                                         |                                                                                                                           |
| Date                        | Start Time | End Time | Title                                                                                             | Slides                                                                   | Videos                                                                  | Speaker(s)                                                                                                                |
| 10/11/23                    | 9:00 AM    | 9:30 AM  | The SDV Future: Challenges and Opportunities                                                      | <a href="#">0900-0930_SDV Future - Dan Nicholson - Day 2_900-930.pdf</a> | N/A                                                                     | Dan Nicholson, GM                                                                                                         |
| 10/11/23                    | 9:00 AM    | 9:45 AM  | AOSP App Framework Standardization Expert Group Status                                            | <a href="#">Day 2_900-945 COVESA AOSP APP FRAMEWORK AMM OCT23.pdf</a>    | <a href="https://youtu.be/U45oiJfAwtc">https://youtu.be/U45oiJfAwtc</a> | Richard Fernandes, GM, Camille Ghibaudo at Faurecia and Melina Mascolo at BMW Group                                       |
| 10/11/23                    | 9:00 AM    | 9:45 AM  | Data Expert Group Update                                                                          | <a href="#">Data Expert Group Update 2023-10-11</a>                      | N/A                                                                     | <a href="#">Erik Jaegervall</a> Robert Bosch AB                                                                           |
| 10/11/23                    | 9:30 AM    | 1:00 AM  | AutoTech Partnerships and Alliances- Reshaping Automotive                                         | <a href="#">Day 2_Steve Bell_AutoTech partnerships.pdf</a>               | N/A                                                                     | Steve Bell, Informa Tech Automotive Group                                                                                 |

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|--------------------------|-----------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 1<br>0<br>/1<br>1<br>/23 | 9:<br>4<br>5<br>AM<br>AM          | 1<br>0:<br>3<br>0<br>AM | Alternative to Push Notifications Working Session                                                                                                 | <a href="#">Day 2_945-1030 COVESA-AMM-Alternative-to-Push-Notifications-Working-Session.pdf</a> | <a href="https://youtu.be/bg17c1_UZgw">https://youtu.be/bg17c1_UZgw</a> | Richard Fernandes, GM, Jose Freitas, Faurecia and Melina Mascolo at BMW Group                           |
| 1<br>0<br>/1<br>1<br>/23 | 9:<br>4<br>5<br>AM<br>AM          | 1<br>0:<br>3<br>0<br>AM | From Concept to Reality: How Data-Centric Vehicle APIs Shape Software-Defined Vehicle                                                             | <a href="#">COVESA_SDV_presentation.pdf</a>                                                     | N/A                                                                     | Adnan Bekan, BMW Group                                                                                  |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>0:<br>0<br>1<br>0<br>5<br>AM | 1<br>0:<br>0<br>1<br>AM | Auto Executives 10 Insights on the Software-Centered Transformation of the Automotive Industry                                                    | <a href="#">1000-10Insights_CLanier_Day2.pdf</a>                                                | N/A                                                                     | Chris Lanier, Wind River                                                                                |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>3<br>0<br>AM                 | 1<br>1:<br>0<br>AM      | Which Data Do Commercial Customers Need and How An Industry-Wide Defined Data Set Increases Value for Fleets, OEMs & Telematics Service Providers | <a href="#">Day2_1030_GETOAB Recommendations for Standardized Fleet Data.pdf</a>                | N/A                                                                     | Christoph Ludewig, Geotab                                                                               |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>0:<br>3<br>0<br>AM           | 1<br>1:<br>3<br>AM      | The Hierarchical Information Model (HIM) and an Interface Using It                                                                                | <a href="#">HIM and an interface using it.pptx</a>                                              | N/A                                                                     | Ulf Björkengren, Ford                                                                                   |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>0:<br>4<br>3<br>0<br>AM      | 1<br>1:<br>3<br>AM      | 360 View of EV Alliances and Initiatives in the Public Charging World: Why VSS and Common Data Models Matter                                      |                                                                                                 | N/A                                                                     | Matus Banyay, Ford                                                                                      |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>1:<br>0<br>3<br>0<br>AM      | 1<br>1:<br>3<br>AM      | How COVESA APIs are Accelerating Service Development in Commercial Vehicles and Off-Road                                                          | <a href="#">Day 2_1100_How COVESA APIs are Accelerating.pdf</a>                                 | N/A                                                                     | Mouham Tanimou, PhD, Bosch                                                                              |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>1:<br>3<br>1<br>0<br>5<br>AM | 1<br>2:<br>1<br>PM      | Sensors, Signals, and Safety: Leveraging Vehicle Connectivity to Reduce Roadway Risk (Panel)                                                      |                                                                                                 | N/A                                                                     | Tim VanGoethem, ESS, Lawrence Williams, ROADMEDIC, Lisa Spellman, SAE ITC, Trpko Blazeovski, Stellantis |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>1:<br>3<br>1<br>0<br>5<br>AM | 1<br>2:<br>1<br>PM      | uServices - A Step towards a standardized vehicle Interfaces for SDV                                                                              | <a href="#">Day_2_1011-11_30_HR_COVESA_uServices_COVESA_AMM_Oct_2023.pdf</a>                    | N/A                                                                     | Halim Ragab, GM                                                                                         |
| 1<br>0<br>/1<br>1<br>/23 | 1<br>2:<br>0<br>1<br>0<br>5<br>PM | 1<br>2:<br>1<br>PM      | Seeing Around the Corner: SDV in the year 2040                                                                                                    | <a href="#">Day 2_1200_John Ellis .pdf</a>                                                      | N/A                                                                     | John Ellis, JTE Consulting                                                                              |
| 1<br>0<br>/1<br>1<br>/23 | 1:<br>3<br>0<br>PM                | 2:<br>0<br>PM           | Beyond the Car - Advancing Commercial Vehicles - The Transforming Software to Meet the Needs of Owners, Drivers and Fleet Managers                | <a href="#">Beyond_the_car_Shareef_Hakim_Day_2_13_30_final.pdf</a>                              | <a href="https://youtu.be/mBbz5Tlg5Y">https://youtu.be/mBbz5Tlg5Y</a>   | Shareef Hakim, Ford                                                                                     |
| 1<br>0<br>/1<br>1<br>/23 | 1:<br>3<br>0<br>PM                | 2:<br>3<br>PM           | DDS and Data-Centric Communications                                                                                                               | <a href="#">COVESA_AMM_2023Oct_RTI_DDS_DATA_CENTRIC_COMMS.pdf</a>                               | N/A                                                                     | Neil Puthuff, RTI                                                                                       |
| 1<br>0<br>/1<br>1<br>/23 | 1:<br>3<br>0<br>PM                | 2:<br>3<br>PM           | Moving the Web and Automotive Forward                                                                                                             | <a href="#">Day 2_W3C_Moving the Web and Automotive Forward.pdf</a>                             | N/A                                                                     | Philippe Le Hégaret, W3C                                                                                |
| 1<br>0<br>/1<br>1<br>/23 | 2:<br>0<br>4<br>5<br>PM           | 2:<br>4<br>5<br>PM      | The Future of the EV Experience (Panel)                                                                                                           |                                                                                                 | <a href="https://youtu.be/KhkgRy_ZGp8">https://youtu.be/KhkgRy_ZGp8</a> | Kyle Ammann, Parkopedia, John Ellis, JTE Consulting, Matus Banyay, Ford, Edward Mussi, Stellantis       |
| 1<br>0<br>/1<br>1<br>/23 | 2:<br>3<br>0<br>PM                | 3:<br>0<br>PM           | Integrate VSS with Automotive Systems: Aligning Data Collection with Business Requirements                                                        | <a href="#">COVESA-Fall-AMM-2023-Presentation-VSS-in-Automotive-Systems-James-Hunt-web.pdf</a>  | N/A                                                                     | James Hunt, PhD, aicas GmbH                                                                             |

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|-----------------------------------|---------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1<br>0<br>/1<br>1<br>/23          | 2:<br>4<br>5<br>PM        | 3:<br>1<br>5<br>PM      | Software as Capital                                                                                                    | <a href="#">SW_as_Capital_HMDC_Day2_1445-1515.pdf</a>                                                                                                                                                                                                                                                    | <a href="https://youtu.be/tvGweq3fAHA">https://youtu.be/tvGweq3fAHA</a>                                           | Hisao Munakata & Daniel Sisco, Renesas Electronics Corporation                                                                              |
| 1<br>0<br>/1<br>1<br>/23          | 3:<br>0<br>0<br>PM        | 4:<br>0<br>0<br>PM      | EV Power Optimization Walkthrough                                                                                      |                                                                                                                                                                                                                                                                                                          | N/A                                                                                                               | Pradeep Kumar Komdabattini, and Umang Sharma, Hyundai Mobis                                                                                 |
| 1<br>0<br>/1<br>1<br>/23          | 3:<br>0<br>0<br>PM        | 4:<br>0<br>0<br>PM      | The Ultimate Vehicle Experience: Today, Tomorrow and Beyond                                                            | <a href="#">The Ultimate Vehicle Experience_CCross_1530-1600 Day 2.pdf</a>                                                                                                                                                                                                                               | <a href="http://youtube.com/watch?v=jhnQeplvSR0">http://youtube.com/watch?v=jhnQeplvSR0</a>                       | Charlie Cross, Stellantis                                                                                                                   |
| 1<br>0<br>/1<br>1<br>/23          | 3:<br>0<br>0<br>PM        | 5:<br>3<br>0<br>PM      | Commercial Vehicle Birds of a Feather                                                                                  |                                                                                                                                                                                                                                                                                                          | N/A                                                                                                               | Ted Guild Geotab, Thomas Spreckley, Bosch                                                                                                   |
| 1<br>0<br>/1<br>1<br>/23          | 4:<br>0<br>0<br>PM        | 4:<br>3<br>0<br>PM      | Building Real-time OTA Updates with an Object Oriented Database (Realm)                                                | <a href="#">Building Real-time OTA Updates with an Object Oriented Database (Realm).pdf</a>                                                                                                                                                                                                              | N/A                                                                                                               | Arnaldo Vera, MongoDB                                                                                                                       |
| 1<br>0<br>/1<br>1<br>/23          | 4:<br>0<br>0<br>PM        | 4:<br>4<br>5<br>PM      | Zero Prototype Future - Navigating the Shift from Physical to Virtual Simulation                                       |                                                                                                                                                                                                                                                                                                          | <a href="https://youtu.be/VhgeyDNMKnng?si=62UGSPQMxPCcrIFs">https://youtu.be/VhgeyDNMKnng?si=62UGSPQMxPCcrIFs</a> | Panelists: Chris Clark, Synopsis - Brandy Goolsby, Wind River - Govind Malleichervu, MathWorks -Jeff Blackburn, Ansys - Shareef Hakim, Ford |
| 1<br>0<br>/1<br>1<br>/23          | 4:<br>3<br>0<br>PM        | 5:<br>3<br>0<br>PM      | Cross OEM Private Compute                                                                                              |                                                                                                                                                                                                                                                                                                          |                                                                                                                   | Milan Zhang, Ford                                                                                                                           |
| 1<br>0<br>/1<br>1<br>/23          | 4:<br>4<br>5<br>PM        | 5:<br>3<br>0<br>PM      | A Fragment of Your Imagination - Ending AOSP App Framework Fragmentation for Automotive                                | <a href="#">Day 2_445_A Fragment of Your Imagination_Andrew Lakin.pdf</a>                                                                                                                                                                                                                                | <a href="https://youtu.be/gMluOHSZ2LI">https://youtu.be/gMluOHSZ2LI</a>                                           | Andrew Lakin, Faurecia Aptode Automotive, Amit Mehta, Stellantis, Michael Whalstom, GM, Florian Delabre, BMW Group, Vamsi Putrevu, Mavio.io |
|                                   |                           |                         |                                                                                                                        |                                                                                                                                                                                                                                                                                                          |                                                                                                                   |                                                                                                                                             |
| <b>Thursday, October 12, 2023</b> |                           |                         |                                                                                                                        |                                                                                                                                                                                                                                                                                                          |                                                                                                                   |                                                                                                                                             |
| D<br>ate                          | S<br>ta<br>rt<br>T<br>ime | E<br>n<br>d<br>T<br>ime | Title                                                                                                                  | Slides                                                                                                                                                                                                                                                                                                   | Videos                                                                                                            | Speaker(s)                                                                                                                                  |
| 1<br>0<br>/1<br>2<br>/23          | 9:<br>0<br>0<br>AM        | 9:<br>3<br>0<br>AM      | Architecture and Infrastructure Working Session VSS-based Data Middleware Tiered Sync - Proof of Concept               | Workshop introduction: <a href="#">Data Architecture Workshop v2.pptx</a><br><br>BMW and MongoDB two part presentations: <a href="#">COVESA_DataMiddleware-PoC-Status_v2.pdf</a><br><br><a href="#">BMW &amp; MongoDB Architecture and Infrastructure VSS-based Data Middleware with Edge Server.pdf</a> | N/A                                                                                                               | Christian Mühlbauer, BMW Group and Arnaldo Vera, MongoDB<br><br>Stephen Lawrence, Renesas                                                   |
| 1<br>0<br>/1<br>2<br>/23          | 9:<br>0<br>0<br>AM        | 9:<br>4<br>5<br>AM      | Creation of a Connected Vehicle Safety Ecosystem                                                                       | <a href="#">Creation of Connected Safety Ecosystem_VanGoethem_Day3-compressed.pdf</a>                                                                                                                                                                                                                    | <a href="https://youtu.be/ly8e0ZjG4Fs">https://youtu.be/ly8e0ZjG4Fs</a>                                           | Lawrence Williams at ROADMEDIC® - Craig Keller at ESS Emergency Safety Solutions - Tim VanGoethem at Emergency Safety Solutions             |
| 1<br>0<br>/1<br>2<br>/23          | 9:<br>3<br>0<br>AM        | 1:<br>1:<br>0<br>AM     | Architecture and Infrastructure Working Session- Discussion of community led Central Data Service reference playground | <a href="#">Data Architecture Workshop v2.pptx</a>                                                                                                                                                                                                                                                       | N/A                                                                                                               | Stephen Lawrence, Renesas                                                                                                                   |

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|----------|---------|---------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 10/12/23 | 9:00 AM | 1:00 AM | A Strategic Perspective on Emerging Technology Trends and Transformation in the Automotive Industry               | COVESA P_Goswami-A Strategic Perspective.pdf                  | <a href="https://youtu.be/ilbp9rhURKo">https://youtu.be/ilbp9rhURKo</a> | Partha Goswami, General Motors                                                                                                                                                                                                          |
| 10/12/23 | 1:00 PM | 1:00 AM | Vehicle as a Wallet Workshop                                                                                      |                                                               | <a href="https://youtu.be/xCe275VEqnY">https://youtu.be/xCe275VEqnY</a> | Amit Mehta, Stellantis, John Moon, COVESA, Vamsi Putrevu, <a href="#">Ma vi.io</a> , Jens Kohnen, Starfish                                                                                                                              |
| 10/12/23 | 1:00 PM | 1:00 AM | VSS in-vehicle: KUKSA State of the Union                                                                          | VSS-in-vehicle-KUKSA-State.pdf                                | N/A                                                                     | <a href="#">Sebastian Schildt</a>                                                                                                                                                                                                       |
| 10/12/23 | 1:00 PM | 1:00 AM | Streaming/Data Sharing Impact on the SW & HW Architectures                                                        |                                                               | <a href="https://youtu.be/uelkelM5U0">https://youtu.be/uelkelM5U0</a>   | Brian Carlson, NXP - Tim Yerdon, Plymouth Technology Advisors - Dave Anderson, Ad Astera Design LLC -Michael Blicher, Managing Director at Innovation Works Bernd Niedermeier, Head of Global Automotive Business Development at Tuxera |
| 10/12/23 | 1:00 PM | 1:00 AM | Vehicle data server southbound architecture                                                                       | Vehicle data server southbound architecture.pptx              | N/A                                                                     | Ulf Björkengren, Ford                                                                                                                                                                                                                   |
| 10/12/23 | 1:00 PM | 1:00 PM | Architecture and Infrastructure Working Session - Documenting How-To's, Patterns and Architectures                | Data Architecture Workshop v2.pptx                            | N/A                                                                     | Stephen Lawrence, Renesas                                                                                                                                                                                                               |
| 10/12/23 | 1:00 PM | 1:00 PM | Easy Prototyping with ProtoPie and VSS                                                                            | Easy Prototyping with ProtoPie and VSS_Oct 10.pptx.pdf        | N/A                                                                     | Emil Dautovic, Remote Labs                                                                                                                                                                                                              |
| 10/12/23 | 1:00 PM | 1:00 PM | Opening up the New Payments Frontier                                                                              | Day3_1145_New Payments Frontier_Roger Lancot TechInsights.pdf | <a href="https://youtu.be/XN50rJt6bv0">https://youtu.be/XN50rJt6bv0</a> | Roger Lancot                                                                                                                                                                                                                            |
| 10/12/23 | 1:00 PM | 1:00 PM | Managing Vehicle Life Cycle: Engineering, Production & Operation, using Digital Twin and Simulation, based on VSS | Day 3_1300_Arendai_Covesa-Walter Buga.pdf                     | <a href="https://youtu.be/DirgWXbEF3E">https://youtu.be/DirgWXbEF3E</a> | Walter Buga, Arendai                                                                                                                                                                                                                    |
| 10/12/23 | 1:00 PM | 1:00 PM | Common Vehicle Interfaces Working Session                                                                         |                                                               | N/A                                                                     | Paul Boyes, COVESA, Halim Ragab, GM, Erik Jaegervall, Bosch, Adnan Bekan, BME Group                                                                                                                                                     |
| 10/12/23 | 1:00 PM | 1:00 PM | Vehicle Experience Explore All Collaboration Workshop                                                             | Vehicle Experience Explore All Collab_Stellantis.pdf          | <a href="https://youtu.be/iniiyICYl6k">https://youtu.be/iniiyICYl6k</a> | Brad Gieske & Dan Cashen at Stellantis, Dan, Michael Bilcher, Innovation Works                                                                                                                                                          |
| 10/12/23 | 2:00 PM | 2:00 PM | Impacting the Future of In-Vehicle Experiences                                                                    |                                                               | <a href="https://youtu.be/Z8w9yHK_Qyc">https://youtu.be/Z8w9yHK_Qyc</a> | John Ellis, JTE Consulting, Andrew Lakin, Aurelia Aptoide Automotive, Niclas Gyllenram, AIDEN Automotive                                                                                                                                |
| 10/12/23 | 2:00 PM | 3:00 PM | VSS Evolvment Workshop                                                                                            | VSS Workshop 2023-10-12                                       | N/A                                                                     | <a href="#">Erik Jaegervall</a> Robert Bosch AB                                                                                                                                                                                         |
| 10/12/23 | 4:00 PM | 4:00 PM | Data Expert Group Wrap Up                                                                                         | N/A                                                           | N/A                                                                     |                                                                                                                                                                                                                                         |