

# Data Expert Group - Workshop 2023 - Q1

## Day 1

15 February - 5 am - 9 am PT / 1400 - 1800 CET

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## Agenda

| Time (minutes) | Item                                                                                                                                                                                                                                                                                                                         | Session Leaders/Presenters                                 | Notes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 30             | Introductions                                                                                                                                                                                                                                                                                                                | Paul Boyes, Erik Jaegervall, Adnan Bekan, Stephen Lawrence | Theme:<br><br>What problem are we trying to solve?<br><br>What are we producing in what time frame?                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 60             | Data Centric Architecture Overview and Group Alignment <ul style="list-style-type: none"><li>Motivations/goals</li><li>Key questions to be answered</li><li>Data domains</li><li>Data characterization</li></ul>                                                                                                             | Erik Jaegervall, Adnan Bekan, Stephen Lawrence             | Compare interface types <ul style="list-style-type: none"><li>type of data</li><li>levels</li><li>pros/cons</li><li>environmental constraints (e.g. compute power)</li><li>Consider existing/previous work<ul style="list-style-type: none"><li>Existing protocols exposing VSS?</li><li>Vehicle Information Service Specification</li></ul></li></ul> Presentation Material: <ul style="list-style-type: none"><li><a href="#">Data Centric Architectures</a> (Deck)</li><li><a href="#">Perspectives Data Centric Architectures</a>(Miro)</li></ul> |
| 60             | Choose Specific Touch Points/ Scenarios to Drill Into<br><br>For example: <ul style="list-style-type: none"><li>Head Unit to Android in-vehicle hosted OS</li><li>Zone ECU to Head Unit</li><li>ECU to Edge compute device in vehicle</li><li>Zone ECU to TCU</li></ul> Collaboration Session ( <a href="#">Miro Board</a> ) | Erik Jaegervall, Adnan Bekan, Stephen Lawrence             | Common ways of describing and exposing/exchanging data<br><br>Agree on specific examples to drill into                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 60             | Drill Into Specific Context/Interface/Arch<br><br>Collaboration Session ( <a href="#">Miro Board</a> ) -                                                                                                                                                                                                                     | Erik Jaegervall, Adnan Bekan, Stephen Lawrence             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 30             | Wrap-Up and Next Steps                                                                                                                                                                                                                                                                                                       | Paul Boyes, Erik Jaegervall, Adnan Bekan, Stephen Lawrence | Concrete action items for next day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Day 2

16 February - 5 am - 9 am PT / 1400 - 1800 CET

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| Time (minutes) | Item                                                   | Session Leaders/Presenters                                 | Notes |
|----------------|--------------------------------------------------------|------------------------------------------------------------|-------|
| 30             | Review Previous Day<br><br>Questions/Discussion        | Paul Boyes, Erik Jaegervall, Adnan Bekan, Stephen Lawrence |       |
| 150            | Drill Into Specific Context/Interface/Arch - Continued | Erik Jaegervall, Adnan Bekan, Stephen Lawrence             |       |

|    |                                                                                                                                                       |                                                            |                                                                                       |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 60 | Roadmap <ul style="list-style-type: none"> <li>Specific Work Product Identified</li> <li>Work Product Completion On Timeline (as possible)</li> </ul> | Erik Jaegervall, Adnan Bekan, Stephen Lawrence             | Let's do our best to identify work product over time using AMMs and CES as milestones |
| 30 | Wrap-Up and Next Steps <ul style="list-style-type: none"> <li>Action Items</li> <li>AMM - Workshop</li> </ul>                                         | Paul Boyes, Erik Jaegervall, Adnan Bekan, Stephen Lawrence |                                                                                       |

## Proposed Agenda Ideas

Below is a working table to collect proposal idea. The actual agenda is above.

| Topic                                                                                                                                                            | Why                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Proposed By                                    | Priority |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------|
| Target roadmap for 2023 <ul style="list-style-type: none"> <li>Milestones for Spring AMM</li> <li>Milestones for Fall AMM</li> <li>Milestones for CES</li> </ul> | <p>Where do we wish to take the Data Expert Group and when? We should have basic agreed upon direction for launching and maturing projects and initiatives with-in the 4 pillars of the Data Expert Group.</p> <p>We should use the AMMs and CES as the bounding milestone events/dates.</p>                                                                                                                                                                                                                                                                                                                                         | Paul Boyes                                     |          |
| Data Security and Privacy Best Practice                                                                                                                          | This has been called out as one of the Best Practice pillars topics. What would be useful to the community here? A white paper? Aggregation of existing practices? Regulation overview?                                                                                                                                                                                                                                                                                                                                                                                                                                              | Paul Boyes                                     |          |
| VSS How To and/or Implementation guides                                                                                                                          | How do users implement VSS in-vehicle, out of vehicle, from vehicle to out of vehicle? How do they facilitate interoperability? How do you know and validate that your implementation will allow you to easily share data, integrate, interoperate with others?                                                                                                                                                                                                                                                                                                                                                                      | Paul Boyes                                     |          |
| How does VSS relate to other models/the world?                                                                                                                   | VSS as a common way of describing vehicle data is useful and a good start. It becomes very powerful when used to relate vehicles to other models? In other words, how does VSS related to EV charging, Points of Interest, road infrastructure, ...                                                                                                                                                                                                                                                                                                                                                                                  | Paul Boyes                                     |          |
| Complex Types                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |          |
| Data Architecture Pillar                                                                                                                                         | Two themes: <ul style="list-style-type: none"> <li>The general data centric data architecture pattern <ul style="list-style-type: none"> <li>Motivations/goals</li> <li>Key questions to be answered</li> <li>Data domains</li> <li>Data characterisation</li> </ul> </li> <li>More descriptive/prescriptive orientations of the pattern for specific use cases or touchpoints <ul style="list-style-type: none"> <li>e.g. Android touch-point: <ul style="list-style-type: none"> <li>Methods of signal abstraction via VHAL or VSS Data Server</li> <li>App connection via cloud and in-vehicle</li> </ul> </li> </ul> </li> </ul> | Adnan Bekan<br>(seconded by Stephen Lawrence ) |          |
| AMM Planning                                                                                                                                                     | What to present/discuss, who shall do it, .. <ul style="list-style-type: none"> <li>Possibly: the "Ulf evolution multiple tree proposal"</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ulf Bjorkengren                                |          |
| VSS general roadmap                                                                                                                                              | What needs attention?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |          |
| How to get attractive documentation/guides                                                                                                                       | How can we achieve a nice "goto site" for all VSS questions <p>"Describe/identify a few scenarios; xxx, yyyy, zzzz, ....</p> <p>"If you want to do xxxx, then the challenges are .... If you want inspiration you can look at this presentation..."</p> <p>An idea at: <a href="https://github.com/erikbosch/doc_test/blob/master/architecture_overview.md">https://github.com/erikbosch/doc_test/blob/master/architecture_overview.md</a></p> <p>Possibly merge it with <a href="https://covesa.github.io/vehicle_signal_specification/">https://covesa.github.io/vehicle_signal_specification/</a></p>                             | Erik Jaegervall                                |          |