

# 2023 Spring AMM (Data Architecture and Infrastructure) Workshop

Planning for the Data Architecture and Infrastructure workshops at the 2023 Spring AMM in Porto.

Timing: Data Arch - 2 hours Thurs AM (9-11)

## Inputs / ideas

Add your inputs here. Please add your name.

Data Arch session timings:

- Tues PM: "Data Arch Intro (currently called "Data Centric Arch" in schedule)" (Primary: Steve/Christian, Adnan secondary)
- Weds PM : "Deployment Scenarios" diagram discussion (Adnan/Erik/Steve)
- Thurs AM: 9-11am Data Arch Workshop (all)
  - Thurs AM
    - Different Data Domains (which means also models) (Proposer: Christian)
      - Christian
    - Storage / Persistence (Proposer: Steve/Felix)
      - Cleaner version of storage pic which includes high level topics to tackle down
      - Persistence classification/Realm (Felix)
      - Storage backend (Steve)
    - Topic B
    - Topic C
    - Outcomes (focus is advancing the work)
      - Info sharing
      - Roadmap
  - Fri
  - Proposals:
    - Christian: Different Data Domains (approx 20-30 mins)
      - Presentation on BMW experience.
      - (placeholder from Steve until Christian replaces with details) Starting from using personal data as example of different data domain and moving to data middleware.
      - Steve: m/w may be handy bridge towards follow on discussion of persistence
    - Felix: Persistence
      - (placeholder from Steve until Felix replaces with details) Presentation on classifying different persistence options
    - Steve: Persistence
      - Data Server to Data Store connection, including high volume data
      - Data analytics using TS DB features
        - e.g. using DB User Defined Features (UDF) for analytics allows the same processing logic in-vehicle and the cloud
      - etc.
      - Goal: collective idea of high level outline of some topics to tackle down. We wonder if X, results should Y.
    - Steve: Deployment Scenarios
      - Pick one of the Deployment Scenario diagrams (from Miro set) and work on taking it to the next level. What are the requirements, logical components etc?
      - Paul: Would be useful to understand what the group wants from the scenario discussions. Requirements, PoCs etc.?
      - Steve: That is a way to approach the scenarios top-down. Derive how to approach the scenarios.
      - Goal: 1) Advance shared agreement/understanding of that scenario. 2) High level idea of what needs to be tackled.
    - Piotr: A useful discussion could be how to handle the compatibility issues between components.
    - Felix: workshop
      - Details TBA
      - Most likely Thursday PM

## Agreed Plan

Timing	Topic	Lead	Notes
1 hour 20m Christian 10m Felix 30m Discussion	Building Bridges with a common Data Middleware: How to enable Data Sharing and Collaboration across different Domains	Christian / Felix for presentation,  Steve facilitating	Return of experience from BMW/MongoDB on their investigations into using a common data centric architecture across different domains.  Followed by a discussion of the points raised and the data-science big picture of leveraging VSS.

40-60 mins	Deployment Scenarios	All	Take one of the Deployment Scenarios diagrams to the next level.  If the prior session is going really well in terms of moving the data-science discussion on then this may be compressed.
15 mins	Wrap up		

AI:

- Paul: We should ensure the data scientists are in the room.