

# 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.