

Meeting Notes Prior to 2022-12-07

November 23rd at 7:00am PT, 10:00am ET, 1600 CET

Agenda

- Discussion on Planned Demo/PoC for CES 2023
- Demonstration of Approach for Integration with VSS
- Plan for Collaboration

Attendees

Paul Boyes COVESA
Dirk Slama Bosch
Pradeep Kumar K Mobis
Umang Sharma Mobis
Anirudh Koduganti Mobis

Meeting Notes

- Discussion on Planned Demo/PoC for CES 2023:
 - Mentioned that the Network Reception for COVESA can be a good session for the COVESA team (led by Mobis) to showcase the first level EV Power Optimization dataset on January 5th at CES 2023.
 - Proposed that EV Power Optimization Use Cases related to HVAC, Lighting and Climate Control can be taken to CES 2023.
 - Shared details regarding registration for CES 2023.
 - Outlined Plan for development of PoC.
- Demonstration of Approach for Integration with VSS:
 - Showcased the VSS Model developed and mentioned that COVESA VSS team suggested that existing VSS Modules should be used to include EV Power Optimization.
 - Suggested that signals developed should be able to clearly indicate the difference between Normal mode and Power Optimized mode.
- Plan for Collaboration:
 - Planned Tasks for development of PoC outlined.
 - Tasks assigned to two teams. The first team will work on creating a UI for the PoC in the digital.auto playground. The second team will work on creating an Excel Spreadsheet showing data on Power Optimization of different EV Systems.
- Topic for Next Week's Meeting:
 - Discussion on Excel Spreadsheet prepared for the planned PoC.
 - Discussion on UI Development for the planned PoC.

November 16th at 7:00am PT, 10:00am ET, 1600 CET

Agenda

- Overview of Project and Technical Concept.
- Plan to Integrate with VSS.
- Queries and Suggestions from Participants.

Attendees

Paul Boyes COVESA
Achim Henkel Bosch
Dirk Slama Bosch
Sunil Goyal Ford
Christoph Schierjott Ford
Denys Fedenko Intellias
Gaurav Mittal Mobis
Pradeep Kumar K Mobis
Chandra Sekhar C Mobis
Umang Sharma Mobis

Meeting Notes

- Explained the following:
 - Power Optimization Project Technical Concept in detail including the Architecture, Parameters, Use Cases, VSS Signal Integration (Additional Signals recommended) and applicability to different Automotive Systems/Modules.
 - Proposed that VSS Signals can be added in two different ways for this project:
 - Add in the Existing VSS Modules in the Infotainment Category.
 - Add a separate VSS Module for EV Power Optimization.
- Views from Participants:
 - In general the concept is accepted and further study is agreed.
 - Suggested to create a first level dataset based on estimates and develop it further:
 - Participants mentioned that they are willing to share resources for this activity.
 - Potential candidate to be presented in CES 2023 if such date would be available.
 - Expressed opinion that the EV Power Optimization technical concept can be applied to all EVs globally and can be customized to cater to the requirements of OEMs and Tier 1s.
 - Possible to explore additional product lines for Power Optimization.
- Topic for Next Week's Meeting:
 - Discussion on possible collaboration for further development of VSS Signals and Dataset.
 - Discussion on approach for VSS Signal Integration for this Project.

EV Power Optimization Proposal presented during COVESA Fall AMM conducted from 18th to 20th October:

- EV Power Optimization Project Proposal and premise were presented.
- Technical aspects of the proposal along with Use Cases and Parameters Effecting Travel Range were explained.
- Guidelines for Power Optimization, currently proposed for IVI module, can be extended to many other modules of the vehicle.
- Discussed Opportunity for reutilization by industry Partners related to EV Power Optimization.