AVL AGL Alignment

07.12.2023
Virtualization via XEN Hypervisor

- Current Status: Running XEN Hypervisor on Renesas devices, based on AGL distribution
- AVL could publish current development code base to AGL open-source community

- Enhancement towards VirtIO needed?
  - E.g. contributing to driver development to enhance current functionality

- **F2F Meeting (07.12.2023) Notes:**
  Jan: contribution is welcome
  Jerry: Linaro virtIO work on Xen backend drivers could have overlap
  Scott:
    backport xen-recipe would be easier
    Multi-config to build the guests of hypervisor, instead of using moulin
    meta layer for hypervisor work to be decided till next meeting

Further alignment in the next SDV EG call
FEDERATE project: European public funded project to coordinate SDV activities

- The FEDERATE project aims to bring together all relevant stakeholders of the mobility industry, the open source software community, the semiconductor industry, and public authorithies to accelerate the development of an SDV Ecosystem to foster a vibrant European society and to orchestrate the SDV R&D, Development and Innovation activities (reference: [www.federate-sdv.eu](http://www.federate-sdv.eu))

- 29 companies from 7 countries (OEM, Tier1, Tier2, Silicon supplier...)

- FEDERATE is coordinated by AVL
Open source in EU funded project

- European Public Funded Project
- Target: Abstract HW from Software
- Participations: 52 companies
  - Big European OEMs: e.g. BMW, Mercedes Benz, VW (CARIAD), Renault, Volvo, ...
  - Big Tier 1: Bosch, Conti, ZF, ...
  - Tier 2, uC Vendor, Tooling Vendor, ...
  - AVL is coordinating the Project together with TTECH

- AVL Use-case: HW-abstraction for mixed critical Server application which includes ADAS, V2X, IVI, OTA application (i.p. AGL applications)
  - Open-Source solutions plays a very important role
  - Alignment between AGL Interfaces and developed Middleware
  - Promotion of AGL´s virtualization approach
Ajunic meets AGL

- Ajunic as a possible reference HW for AGL SDV activites?
- AVL could provide some kind of Ajunic BSP for as an contribution to AGL open source community
  - Detailed content tbd.

- F2F Meeting (07.12.2023) Notes
  - Two ways to introduce Ajunic in AGL
    - To Submit the bsp, AVL to take care of CI,
      It is the easier way, no extra requirement
      Example: there is bsp of a board similar to Beaglebone in the source tree
    - As a Reference board
      - AGL requires 4 boards: One for BSP, one for CI, etc.
      - AGL will take care of test cases for CI
Other potential collaboration topics

- Container Orchestration
  - More Background needed to find out whether AVL could support here
- Vehicle2Cloud (V2C)
  - Could be a topic for AVL as well (Digitalization department)