

DEVELOPMENT SPRINT REVIEW CALENDAR WEEK 26.21

GENERAL (1/3)

HIGHLIGHTS:

- Welding/Gluing technology support
 - Competence available
- Alignments
 - Main release completed
- Issue/Change Management Reporting focus
- BOM Support
 - Improve BOM effectiveness of transfers (3dx, EEBOM etc.)
- Cross Functional Synchronisation Points
- PMCS Status Review

GENERAL (2/3)

- PMCS Assessment
 - 100% pre S0 and S0 assessed
- VPP Release
 - Next release of VPP incl. Comms of major changes
- Software release plan overview

LOWLIGHTS:

- Part Quantity Strategy
 - Define strategy for hardware quantity requirements
- Software release plan overview
 - Software Level definition



GENERAL (3/3)

BLOCKER:

- SBP Focus
 - Understand current status
- Test/Hardware validation Org
 - o Organisational set-up clarified and actions taken

LOGISTICS

HIGHLIGHTS:

SOP:

- Logistics Manual:
 - Purpose / Scope Done
 - List of Abbreviations Done
 - Contacts & Delivery Address 80%
 - Logistics Requirements 90%
 - Transport & Delivery 90%

LOWLIGHTS: None

PRODUCTION

HIGHLIGHTS:

- ME
 - Concentrating now at team members show promising candidates

LOWLIGHTS:

- ME
 - Concentrate on BOM show several questions in case of make or buy at NEVS

BODY CLOSURE

HIGHLIGHTS:

- Charger Lid complete module --> could be a solution here
- RLE supplier visit closures/exterior
- KO meeting suppliers

LOWLIGHTS:

3DX lowlight: unable to release top level, unable to create new revisions in 06_BC

EXTERIOR

HIGHLIGHTS:

- SVC3/Series only
 - 1 new engineer signed contract
- Bumper
 - Update styling surfaces to improve CFD

LOWLIGHTS: None



BODY STRUCTURE

HIGHLIGHTS: SVC3:

- 3DX Body Structure Release G.1
- Sealing Concept to NEVS
- Drawing decision matrix
- PMCS deliverables
 - Status check (pre S0)
 - Filled S0
- Prepare BoM for supplier (Definition of mirrored parts)

LOWLIGHTS: None



HIGHLIGHTS:

SVC3:

- PMCS
 - PMCS Pre S0 Deliverable checked and judged Done
 - Regular meetings with ARRK Interior on I/P, doors, trunk, and console hard points WIP

LOWLIGHTS: None

INFOTAINMENT (1/2)

HIGHLIGHTS:

SVC3:

- Systems received the quad max Dev kit and Base board and are in the process of porting Android 11 OS. Should be delivered to the digital team in week 27
- Technical process is underway to reduce the number of antennas, numbers of cables and the location of the VCM, headunit and Ecall modules
- Propose of mating the VCM and headunit together (two modules, fastened together in a single location) Systems are on board, there are connector details to workout

INFOTAINMENT (2/2)

LOWLIGHTS:

SVC3:

- The number of antennas are driving up cost
- Studying the full CarPlay certification documents, if they are not able to complete we will have to contract an ESP to complete the certification
- Suppliers are on summer vacation

BLOCKER:

SVC3: The current VCM/Headunit/Ecall location is not acceptable for manufacturing (too close to the floor and between the cross brace)

THERMAL

HIGHLIGHTS:

SVC3:

- 1D simulation results have been presented (Documentation outstanding). Results look promising:
 - Heat rejection (75kW fast charging) of the battery can be cooled in a steady state
- Compressor vibrations testing successful. Minor communication problems did not cause issues. Result outstanding
- Creation of requirements sheet (SSTS) for coolant and refrigerant lines on track

LOWLIGHTS: None

CHASSIS (1/4)

HIGHLIGHTS: SVC3:

- Steering
 - Tierod Obj Freeze 80%
 - Straight Tierod Freeze 80%
 - Tierod Sweep Zone Freeze 50% (100% next Tue)
 - CAD Model Freeze on PDM 80%
 - Grommets scanned model to be modelled, interfaces to be sent to Cikautxo to move forward with RFP - Upper 100% / Lower 0% (60% next Thu)
 - Steering column fastener to be decided, added in PDM and frozen 70%
 - Intermediate shaft fastener to be decided, added in PDM and frozen 70%
 - Steering gear fastener to be decided, added in PDM and frozen 70%

CHASSIS (2/4)

Brakes

- Develop brake pedal CAD and DVP 50%
- Freeze foundation brakes (caliper + disk) 80%
- Sign off ESC communication strategy 60%

Suspensions

- Sample size for Durability (LCA) 100%
- Design inputs implemented for Subframe 50%
- Design inputs implemented for RTB 60%
- Implement Top down targets given by NVH 50%
- Interference Fender x tire envelope 60%

CHASSIS (3/4)

- Knuckle
 - Optimized design 90%
 - Get new loadcase data 100%
- CAD / PDM
 - Upload latest geometry into PDM 100%
 - Add number logic to structure 100%
 - Kick off GD&T (integration)
- Cross Functional
 - BIW x Subframe mounting hardpoints 50%

CHASSIS (4/4)

LOWLIGHTS:

SVC3:

- CAD integration being made manually. Probably will be solved next week
- Increase DM robustness

BLOCKER:

SVC3: SF front Extension: crash and radiator assembly

E/E

HIGHLIGHTS:

SVC3:

- Regular meetings with ARRK Interior and Sono Interior Team → Major improvements on the Center Console
- Started product requirement in Jira defined-> Need further investigation

LOWLIGHTS:

SVC3:

- Missing peripheral information attached to BCM
- Missing peripheral information attached to RCM

BLOCKER: SVC3: Headcount (Timing)

DESS

HIGHLIGHTS:

SVC2: OBC Testing was done last week with Casco on SVC2.2 (Pepper):

V2L working

SVC3:

- Requirements for VCU taking shape with Continental (Weekly reviews in place)
- OBC Discussion with suppliers
- OBC DVP plan (Environmental & EMC)

LOWLIGHTS:

SVC2: V2V not working

BLOCKER:

SVC2: Sleep Mode not tested in SVC2.2

HV BATTERY

HIGHLIGHTS:

SVC3:

- Review information for connector and EE parts selection required: WIP
- New team member joining the HV battery team as lead CAE engineer: WIP

LOWLIGHTS:

SVC2:

- Implement WLTP cycle --> Pedal Position --> EDU requested torque --> EDU efficiency map in MATLAB: WIP
- Implement vehicle dynamics for available information on vehicle: WIP

PROCESS OWNER (1/3)

HIGHLIGHTS:

- VTS
 - Release VTS V6.2 completed
- BOM
 - 3DX issues partly solved
- Issue Management
 - Issue report to be published this week
 - PMCS trainings per module
- Release Management
 - First draft of 'valid from' attribute

PROCESS OWNER (2/3)

- Cost Management
 - Alignment on budget status (Spent until end of June)
 - Justification for overspend cost items
 - Cost report manufacturing

LOWLIGHTS:

- VTS
 - Slow progress in update
- BOM
 - BOM viewer issues
- Issue Management
 - Critical known DMU issues have not been introduced into the system yet

PROCESS OWNER (3/3)

BLOCKER:

- Issue Management
 - PMCS tool issues due to update (e.g. login of external partners) → issue performance can't be shown at 100%
- Release Management
 - Define content of initial release → Stakeholders / Project Lead

VIRTUAL VEHICLE (1/2)

HIGHLIGHTS:

- Integration Guidelines updated (incl. Change Action)
- VTS Update SAE J1100
- Release G.1 and local export, data ok for NEVS
- Focus on Frontend
 - HV Wiring Charging Lid to OBC concept completed
 - Frunk volume 15L
 - Trunk volume optimized
 - Front Radar positioned
 - 12V Battery Tray optimized (Manufacturing, heater)

VIRTUAL VEHICLE (2/2)

- HV Battery Product Structure
- 3DX Coaching new employees
- Model based Definition/Drawing Strategy defined, additional Alignment with Body Structure
- VDA Tech Days

LOWLIGHTS:

Some processes not reflected in 3DX

BLOCKER:

Headcount Competence Cluster - Validation Report moved to next sprint

DESIGN (1/2)

HIGHLIGHTS: SVC3:

- Organisation
 - Definition of styling swimlane done
- Exterior:
 - Styling Loop 02 ongoing. Updated Hood / Bumper / A pillar ready 09.07.21. Rear ongoing.
 Estimate that about 60% of styling loop 02 is done. Plan to finish mid / end of July.
- Interior:
 - Styling loop 02 ongoing. IP and Center Console are progressing well, door (window switch area) complicated but will progress. Greenhouse / Headliner not yet touched. Estimate that about 30% of styling loop 02 - done
- Visualization:
 - Visualization is progressing

DESIGN (2/2)

LOWLIGHTS: None