DEVELOPMENT SPRINT REVIEW
CALENDAR WEEK 04.22

GENERAL (1/3)

HIGHLIGHTS:

- All infotainment components are either “APPROVED” or “IN APPROVAL” status for SVC3
- E/E: Good progress in SVC4 roadmap
- Powertrain: All components released for SVC3 except VCU (spec. for DTs outstanding due CW6) and fasteners (BOM submitted to supplier and awaiting offer)
- SVC3 HV battery release
- NVH: Interior package alignment for NVH testing (Step1)

GENERAL (2/3)

IN PROGRESS:

- CAE data and Mesh data for complete Infotainment System received (crash simulations) IN REVIEW
- E/E: PDC sensor integration is still ongoing
- Powertrain: VCU has a lead time of 16 weeks → Open VCU available from CW19 (w/c 9 May) but standard VCUs could be earlier.
- Towing: ongoing investigation of upgraded transmission and lifetime study

GENERAL (3/3)

LOWLIGHTS:

- Unsourced SSCM holding up I/P, shroud, steering wheel and driver airbag
- Unsourced E/E multimedia-ADAS switches holding up steering wheel
- E/E: Headcount: DVP and testing engineers missing

INTERIOR

HIGHLIGHTS:

- Cross functional data status for the completion of interior development

IN PROGRESS:

- Steering column updates lead to CCB & I/P changes post DR

LOWLIGHTS:

- Overhead console thus headliner design affected by eCall and wiring
- Unsourced SSCM holding up I/P, shroud, steering wheel and driver airbag
- Unsourced E/E multimedia-ADAS switches holding up steering wheel

INFOTAINMENT (1/4)

HIGHLIGHTS:

SVC3

- All infotainment components are either “APPROVED” or “IN APPROVAL” status for SVC3 → DONE
- Solved existing BOM errors: IS-123: BOM error → DONE
- POs for all infotainment parts sent to suppliers (for the exception of antennas)
- CAE data and mesh data for complete infotainment system received (crash simulations) → IN REVIEW

eCall

- Received contract for COP-part from OEM; currently in signature loop

INFOTAINMENT (2/4)

VCM

- 2D drawing uploaded to 3DX

Everything else

- Continuing to purchase test bench & components
  - ESD bench mats
  - Power supplies + lead sets
  - Parking aid item definition & HARA review completed.

INFOTAINMENT (3/4)

IN PROGRESS:

- SVC3
  - Missing antenna and front USB DTs → supplier and team in continued loop: PARKED

- Infotainment head unit
  - Alignment required with digital for cluster UI/UX dependencies: → IN REVIEW
  - Currently waiting for supplier side testing to be completed on alpha boards

INFOTAINMENT (4/4)

VCM

- VCM - IHU ethernet connection design still in progress
- IC Controller/CANbus monitor module/phone projection module proposal review → IN REVIEW
- CAN.dbc for IHU → IN REVIEW

LOWLIGHTS: None

E/E (1/4)

HIGHLIGHTS:

- E/E integration
  - Body electronics:
    - BodyCAN V16 was uploaded to confluence page and released → all changes will go through change process
    - Vehicle network management → process defined

- Wiring harness
  - Complete timing for SVC4 roadmap.

- Overall
  - Good progress in SVC4 roadmap

E/E (2/4)

IN PROGRESS:

- E/E integration
  - Body electronics
    - PDC sensor integration is still ongoing

- CAD integration
  - We were not able to release all parts of E/E

E/E (3/4)

LOWLIGHTS:

- E/E integration
  - Body electronics:
    - Prioritization of tasks is difficult, because of a lot of x-functional tasks from other departments
    - Headcount: DVP and testing engineers missing; SCCM Supplier sourcing ongoing. Progress on supplier but still open points to make it work

- CAD Integration
  - Hazard light switch: Does it come with a bezel? → We can not release our part without this knowledge. → Need to clarify with interior
  - No BLS supplier
  - Waiting for complete PCB layout to begin GEM housing design

E/E (4/4)

- Overall
  - Still missing (9%) and incomplete (30%) DTs from powertrain (supplier), chassis (supplier), thermal (supplier), closures (PV panel ready this week), exterior, infotainment (supplier) and E/E (supplier- hazard light switch feedback tomorrow).

POWERTRAIN (1/3)

HIGHLIGHTS:

- All components released for SVC3 except VCU (spec. for DTs outstanding due CW6) and fasteners (BOM submitted to supplier and awaiting offer).
- Issuing contracts for Integration engineer and T&D engineer.
- Labeling for SVC3 agreed with suppliers.
- Engagement from test facility providers for Powertrain validation (quotation phase).

POWERTRAIN (2/3)

IN PROGRESS:

- Too much time invested in 2D drawings sizes (adjustable 2D drawing template required).
- VCU has a lead time of 16 weeks → Open VCU available from CW19 (w/c 9 May) but standard VCUs could be earlier.
- Towing: ongoing investigation of upgraded transmission and lifetime study
- VCU design not released as VCU spec. from supplier outstanding.
- BOM outstanding data (enterprise numbers, fastener torques).
- Definition of part labels: fixed, uniform labeling for Sono Motors
- Difficulties with 3Dx → have delayed constructing --> problem is solved with CAD-team

POWERTRAIN (3/3)

LOWLIGHTS:

- Headcount (PT and HV Battery).
- Standing in for HV Battery is taking up time and impacting other tasks.
- Recruitment for Powertrain and HV Battery taking up time → powertrain recruitment should complete this week.
- Mount damper curves for misuse simulation (critical path for h/w sizing validation and towing capability analysis) → supplier due share end of CW5.

BI-DIRECTIONAL

HIGHLIGHTS:

- Wallbox: supplier will start to develop the Bidirectional Wallbox

IN PROGRESS:

- No off the shelf part for Schuko with plug detection available (high piece price)

LOWLIGHTS:

- Decision on Schuko plug detection for V2L still pending
- No requirements for diagnostic system on vehicle level available

HV BATTERY (1/2)

HIGHLIGHTS:

- A sample installed on lab car and outputting CAN signals → communicate to BMS using correct dbc file
- Tear down of a sample showing BMS, contactor relays, pyro fuse
- SVC3 HV battery release
- 475 A peak current capability confirmed by supplier and planned in DVP
- Cell testing at supplier (dimensions, capacity, charge times)

HV BATTERY (2/2)

IN PROGRESS:

- 13 kg over weight due to structural design change

LOWLIGHTS:

- Headcount
- Internal / external support for defining BMS Hardware / Software functionalities
- Diagnostic Topics-Critical for SVC3 (DTC definition to supplier shall be provided by Sono)
- Software Release Plan (Maturity level)

SIMULATION (1/3)

HIGHLIGHTS:

- CAE Solver
  - Solver defined: Abaqus
  - Purchased: yes
  - Runnable: aimed for February
- HVB Simulation Loop decision
  - Decision taken
  - minor alignments to go
- Modeling of weld lines
  - Decision available
  - Decision shared with main stakeholder (body structure) and main ESP
  - Additional: open question marks and issues-to-solve detected

SIMULATION (2/3)

IN PROGRESS:

- Complete Vehicle Bracket Status
  - List started and available
  - Just a few information available from squads
    → complete content overview (which brackets are to evaluate) not available for now

SIMULATION (3/3)

LOWLIGHTS:

- HV-simulation loop - LV124
  - no results received due to new-years-holidays

NVH (1/2)

HIGHLIGHTS:

- Interior package alignment for NVH testing (Step1)
- Closure package alignment
- Exterior package alignment
- Series-validation vehicle build planning alignment for NVH
- Infotainment package alignment
- Recruitment closing next sprint
- Structural dampeners decision matrix and possible change action to be initiated
- Engine mounts end stops tuning
- Sound designer recon

NVH (2/2)

IN PROGRESS:

- 15+ cards in progress

LOWLIGHTS: None

WEIGHT

HIGHLIGHTS:

- Link to Jira Sprint (StatusReport-CW02 related Jira tickets will be closed on Friday)

IN PROGRESS:

- Jira Link to the Requirement Board still in Work (VTS related topics)
- Jira Sprint view in Weight Management Confluence Page still in Work
- Design Release check related topics will be closed on Friday after the Release meeting; Masses Package tickets will be closed/inReview on Thursday; Weight Table Ticket related topics will be postponed to Sprint CW06.22 because of lacking of Axle Distribution input (which depends on the Masses list)

LOWLIGHTS:

- Input source: BOM attributes Part_Source and estimated Weight

DESIGN (1/2)

HIGHLIGHTS:

- Update exterior handle + freeze it → DONE
- Get printed steering wheel → DONE
- Start stop button position → DONE
- Hazard light switch position → DONE
- Learn blender → DONE
- SION grain logo on hatch? → DONE
- Support ADAS rendering → DONE
- Revise windshield camera cover → DONE
- Sion exterior color matching - need grain / color info from solar → DONE
- Update styling to engineering release → DONE

DESIGN (2/2)

IN PROGRESS:

- Steering wheel switch alignment → IN REVIEW
- Update steering shroud cover → IN REVIEW
- Update IP to new steering shroud + lever task → IN REVIEW

LOWLIGHTS: None