



DEVELOPMENT SPRINT REVIEW

CALENDAR WEEK 24.21

HIGHLIGHTS:

HV Battery Nomination.

BOM Days: EBOM increased from 3072 to 3174 BOM-lines. 55 new part numbers were added. 33 part numbers were deleted. Make/Buy fill rate cannot be measured since the field was empty from the 3DX-export.

VTS updates within BOM Days: expected to implement biggest change (HV Battery) to be implemented in release 02.07.2. Prep this Friday.

OBC Development/Validation planning.

NEVS Engineering Rep - Visit 22-23.06.: Alignment and further F2F discussions with POs

PMCS Status Review.

Software release plan overview.

LOWLIGHTS:

Last steps of finalizing Development SVC3 Quantities (Final Review missing): missing inputs. Bracket "Org".

BLOCKER: Off-Site, BOM Focus Days, Supplier Visit (6 workingdays of sprint).

HIGHLIGHTS:

SOP: Logistics Manual:

Purpose / Scope - done. List of Abbreviations - done. Contacts & Delivery Address - 80%.

Logistics Requirements - 90%. Transport & Delivery - 90%

LOWLIGHTS: None.

BLOCKER: None.

HIGHLIGHTS:

Contracting: First alignment with NEVS for Start up.

ME: One of the top issues for manufacturing (lower bold) is solved.

LOWLIGHTS: Organization and Process.

BLOCKER: None.

BODY CLOSURE

HIGHLIGHTS: None.

LOWLIGHTS: None.

BLOCKER: Adhesive supplier agreement needed.

HIGHLIGHTS:

SVC3/Series only: 1 new Engineer signed contract.

Lighting: Kick off HSL and start to look at package of headlamp. - Complete.

LOWLIGHTS: None.

BLOCKER: None.

BODY STRUCTURE

HIGHLIGHTS:

SVC3: Steering integration approval from NEVS assembly. 3DX Licence available. EBoM Update.

Interfaces: DMU_FR_000002 Body Closures Grommet (Side door). Body Structure position proposal implemented in CAD data.

Good external teamwork between Body Structure and Interior.
Update 3DX attributes.

LOWLIGHTS: None.

BLOCKER: None.

HIGHLIGHTS:

SVC3: share remaining BIW related Interior attachment points / WIP (APA)

LOWLIGHTS: None.

BLOCKER: None.

HIGHLIGHTS:

SVC3: Technical specs for all Antennas are complete. Device transmittal data for IC, CID, USB, Microphone, Ecall and VCM.

LOWLIGHTS:

SVC3: Still having some minor issues with current CAD data and data from SVC2, even after we the data from CAD removed it still turns up in our reviews. Timing for NXP IMX-8 Dev kit to Sono digital team.

BLOCKER: None.

THERMAL (1/2)

HIGHLIGHTS:

SVC2: SVC2 (Salt) first inspection with ARRK to check performance of new compressor damper elements and to check for signs of wear due to tight clearances of thermal parts (especially coolant hoses). Compressor dampening performance evaluated as sufficient for prototypes. However for series the development of a new professional dampening concept will be continued. No critical issues found regarding clearances and wear of thermal parts. Minor contact between one coolant valve and the ARB (anti roll bar) detected. However no damage to either of the parts. Solved by minor change to bracket angle (pipe wrench and force). Issue not relevant for series due to new packaging concept.

HIGHLIGHTS:

SVC3: BOM now completely up to date and attributes filled in. Position of compressor finally fixed. Therefore packaging of thermal parts finalized now. Compressor vibrations testing on schedule. Compressor, cables and connectors have been sent. Tests will take place in the next two weeks. All potential suppliers for coolant and refrigerant lines have been reactivated. 100% positive feedback. CAD will be sent in the next weeks to initiate technical discussions.

LOWLIGHTS: None.

BLOCKER: None.

CHASSIS (1/2)

HIGHLIGHTS:

SVC3:

Suspension: Subframe package to LCA - OK. ARB routing on the back of EDU - Next Monday. Subframe to steering attachment fix - OK. LCA testing procedure - OK.

Steering: PDM update including steering system, correct models and structure (Interior is waiting for that) - OK. V16 is baseline. Define the steering gear geometry by optimizing the tierod outer ball joint hardpoint. - OK. Column and handle sweep zone to be created in PDM structure (Interior is waiting for that) - OK. New steering column packaging model from Nexteer. Rotation of MPP to create more clearance - OK. HVAC - steering column (Bene, Arrk) - OK. BCM - steering column clearance (Arber) - OK. Intermediate shaft - body interface - OK. Get scan + CAD for the sealing grommets - Scan OK. CAD ongoing.

CHASSIS (2/2)

HIGHLIGHTS:

Brakes: Brake Booster & Pedal tech alignment - OK. ESC supplier onboarding - OK. Define the Wheel / Caliper / Disk packaging - OK.

CAD / PDM / Knuckle: Implement latest CAD on PDM - OK. 3D printing analysis for knuckle w/ AM - Ongoing.

General: E-BOM update - OK. Train squad on PMCS - 25.06.

LOWLIGHTS: SVC3: CAD integration being made manually.

BLOCKER: SVC3: ESP access to PDM.

HIGHLIGHTS:

SVC3: 26~ tickets closed this sprint (Covers both EE & Powertrain). Much more time spent with new colleagues. BOM updates (some attributes to be added). BCM SW-Implementation for SVC3 started. LabCAR built moving forward quickly -> LabCAR confluence page set

LOWLIGHTS: SVC3: E/E CAD data mechanical integration -> NEVS report.

BLOCKER: SVC3: SCCM issue still not solved. Headcount (Timing).

HIGHLIGHTS:

SVC2: Gateway Testing completed.

LOWLIGHTS:

SVC2: Pre-Charge Error slowly being resolved.

SVC3: Requirement Tool.

BLOCKER:

SVC3: Headcount.

PROCESS OWNER

HIGHLIGHTS:

Change Management Process: Common tool and process til SAP availability → 3DX.

LOWLIGHTS:

Issue Management: summarize PMCS Product Owner requests.

BLOCKER:

None.

VIRTUAL VEHICLE

HIGHLIGHTS:

Focus on Frontend.

Part Number Uniqueness ensured by System.

LOWLIGHTS:

Some Processes not reflected in 3DX.

MCU needs additional space for cooling.

BLOCKER:

Headcount Competence Cluster.

Delay in 3DX Licenses.

CUSTOMER EXPERIENCE CLUSTER

HIGHLIGHTS:

SVC3:

Organisation: Definition of styling swimlane progressing.

Exterior: Styling Loop 02 ongoing. Plan to finish mid / end of July.

Interior: Styling loop 02 ongoing. Focus on IP, center console and doors.

Visualization: Visualization started for internal purposes.

LOWLIGHTS:

None.

BLOCKER:

None.

FUNCTIONAL SAFTEY

HIGHLIGHTS:

FuSa Processes: Alignment with Open Service Squad > done.

LOWLIGHTS:

None.

BLOCKER:

None.