



DEVELOPMENT SPRINT REVIEW

CALENDAR WEEK 46.22

GENERAL UPDATE

- Good progress with cost down program for E/E, chassis and exterior
- SVC3 testing and validation making progress
- Good progress and promising first results with WLTP tests, DC charging, Bidi (V2V) and solar charging, more detailed results expected in next sprint
- Occupant safety: First ECE regulations and EU NCAP targets (for co-driver and rear occupants) reached
- Entire Sion development progress under strong impact of deceleration due to funding situation
- Community engagement campaign started to reduce external funding needs until pre-series production and series production, potential risk of end of Sion program
- Delayed nomination of series production line builder will impact general timeline for SVC4 and series production

BODY CLOSURE

HIGHLIGHTS:

- Nomination of missing series part suppliers on track

IN PROGRESS:

- Time plans for SCV4 and beyond needs to be revised
- Potential problems with nominated suppliers due to project deceleration

LOWLIGHTS: None

HIGHLIGHTS:

- Grain specification finalized all parts
- Supplier risk definition & part maturity planning makes progress
- First series tool parts available for hood solar body panel (SBP)

IN PROGRESS: None

LOWLIGHTS:

- Many blocked work streams due to current situation

BODY STRUCTURE

HIGHLIGHTS: None

IN PROGRESS:

- Hole for roof brackets needs to be deleted due to design changes in E/E

LOWLIGHTS:

- start release process for all fasteners
- Receive timing and cost estimation from supplier regarding the tooling change of the grille for PedPro

HIGHLIGHTS:

- Cross functional data status for the completion of Interior Development

IN PROGRESS:

- Overhead console thus headliner design heavily affected by eCall and wiring
- Steering column updates lead to cross car beam (CBB) & instrument panel (IP) changes post design release

LOWLIGHTS:

- Design of instrument panel (IP) cables to central information display CID need to be changed

HIGHLIGHTS:

- Nomination of new infotainment head unit (IHU) supplier making good progress, technical requirements aligned, costs to be finalized

IN PROGRESS:

- USB supplier wants to withdrawal from nomination, new supplier to be found

LOWLIGHT

- Radio Antenna assembly issue reported due to closure of the hatch panel from the Body closures

HIGHLIGHTS:

- High waterflow at distribution and charging unit (DCU) for AC charging software update
- Fasteners supplier nominated
- Sheet metal brackets supplier nominated

IN PROGRESS:

- Compressor over pressure issue to be solved
- Heater positioning for series to be released
- Fasteners SVC4/serial design freeze ongoing

LOWLIGHTS:

- Thermal time plan impacted by supplier lead times for SVC4 and Series
- POs for different series development tasks not raised

HIGHLIGHTS:

- Braking vehicle commissioning completed and shipped to US for winter testing
- Began bringing timing planning into Jira
- Complete checking/confirmation of budget and BOM cost, updated where necessary

IN PROGRESS:

- Steering rack destined for part testing was damaged at assembly partner
- Leak found in C pillar area of SVC3-07 (chassis durability car) and can not be driven in rain until fixed
- Slow progress on SVC4 releases and bolted joint calculations

LOWLIGHTS:

- Steering supplier nomination blocked due to commercial negotiation
- Cannot issue any orders for SVC4
- Spindle and knuckle blocked by wheel speed sensor supplier decision

HIGHLIGHTS:

- Vehicle control unit (VCU) device transmittal (DT) updated to wake up in case of solar charging
- New vehicle control unit (VCU) software version after bug fixing (DC charging, thermal system)

IN PROGRESS:

- Routing study for SVC4, in order for distribution and charging unit (DCU) relocation required
- Schuko socket design for SVC4 ongoing
- Design freeze for serial / SVC4 fasteners

E/E (2/2)

LOWLIGHTS:

- Ground distribution E/E computer aided engineering (CAE) setup
- Continue with rear seats harness routing definition for SVC4
- Harness routing need to be changed to avoid clash with body in white bracket during cross car beam assembly

HIGHLIGHTS: None

IN PROGRESS:

- Prepare RFQ with potential partner in the new testing facility in the neighborhood

LOWLIGHTS:

- Vehicle control unit (VCU) testing still need to be aligned

HIGHLIGHTS:

- BiDi V2V test between Sion and other EV successful with 3 phases at 13 amperage resulting in 8kw charging performance

IN PROGRESS: None

LOWLIGHTS: None

HV BATTERY (1/2)

HIGHLIGHTS:

- HV battery bolts finalized & ready for order
- 3Dx sata setup according to manufacturing requirements
- C1 design validation plan (DVP) on pack level definition finalized; tests will start in December

IN PROGRESS:

- Battery positioning on palette for assembly partner to be defined
- Update of requirements progressing slower
- Commissioning support for SVC3 built

LOWLIGHTS:

- Delay in C1 pack production & design validation plan (DVP)
- Cell design validation plan (DVP) clarification

HIGHLIGHTS:

- Aluminum / plastic air condition (AC) compressor bracket simulation
- Closures dynamics - doors
- Sealings - deformation over compression behavior

IN PROGRESS: None

LOWLIGHTS: None

HIGHLIGHTS:

- Saturn SVC3-02 tested at partner in Sweden finished (track, chassis dyno and components chamber testing)
- Powertrain mounts, road noise, wind noise NVH assessed
- Component noise status complete
- Thermal assessment complete

IN PROGRESS:

- Reporting & documentation activities postponed to return to munich

LOWLIGHTS:

- Paused processing activities due to missing license (PO approval delayed)

HIGHLIGHTS: None

IN PROGRESS:

- High voltage (HV) battery target weight to be defined
- Research on weight management automation started to reduce manual effort

LOWLIGHTS: None

HIGHLIGHTS: None

IN PROGRESS:

- Talks with part suppliers and raw material providers for recyclates (= secondary plastics) to evaluate how and where we can enhance the use of recyclate in the Sion
- Evaluating windshield glass recycling services and the potential use of recycled glass

LOWLIGHTS: None

HIGHLIGHTS:

- Started creating a list of min. requirements
- Created roadmap for cyber security

IN PROGRESS: None

LOWLIGHTS:

- Limited progress due to financial limitations

FUNCTIONAL SAFETY

HIGHLIGHTS:

- Driver warning and degradation concept

IN PROGRESS:

- Migration of ISO 26262-9:2018 processes

LOWLIGHTS: None

HIGHLIGHTS:

- Occupant safety: First ECE regulations and EUNCAP targets (for co-driver and rear occupants) reached

IN PROGRESS:

- Problems with steering column occurred during physical testing, assessment ongoing

LOWLIGHTS: None