Assumptions of SEooC

Objective

This document is:

- To show the assumption on intended functionalities, and usage of the SEooC element.
- To show the assumption on the interaction with other elements external to this SEooC element(external safety mechanisms).
- To show the functional safety requirement assumptions on the SEooC element.
- The form basis for further correct implementation of assumed safety requirement.

Assumptions on Functional Safety Requirement

Safety goals

Safety Goal ID	SG_1
Description	Prevent LV battery cell voltage from OV/UV when BMS is during active mode.
ASIL	D
Safe state	Disconnect LV MOSs or customer decides the fault strategy.
FTTI	200ms

Safety Goal ID	SG_2
Description	Prevent LV battery pack temperature from OT when BMS is during active mode.
ASIL	D
Safe state	Disconnect LV MOSs or customer decides the fault strategy.
FTTI	200ms

Safety Goal ID	SG_3
Description	Prevent LV battery pack from OC when BMS is during active mode.
ASIL	D
Safe state	Disconnect LV MOSs or customer decides the fault strategy.
FTTI	200ms

Safety Goal ID	SG_4
Description	Keep MOS ON when BMS is during active mode.
ASIL	B
Safe state	Customer decides the fault strategy.
FTTI	200ms