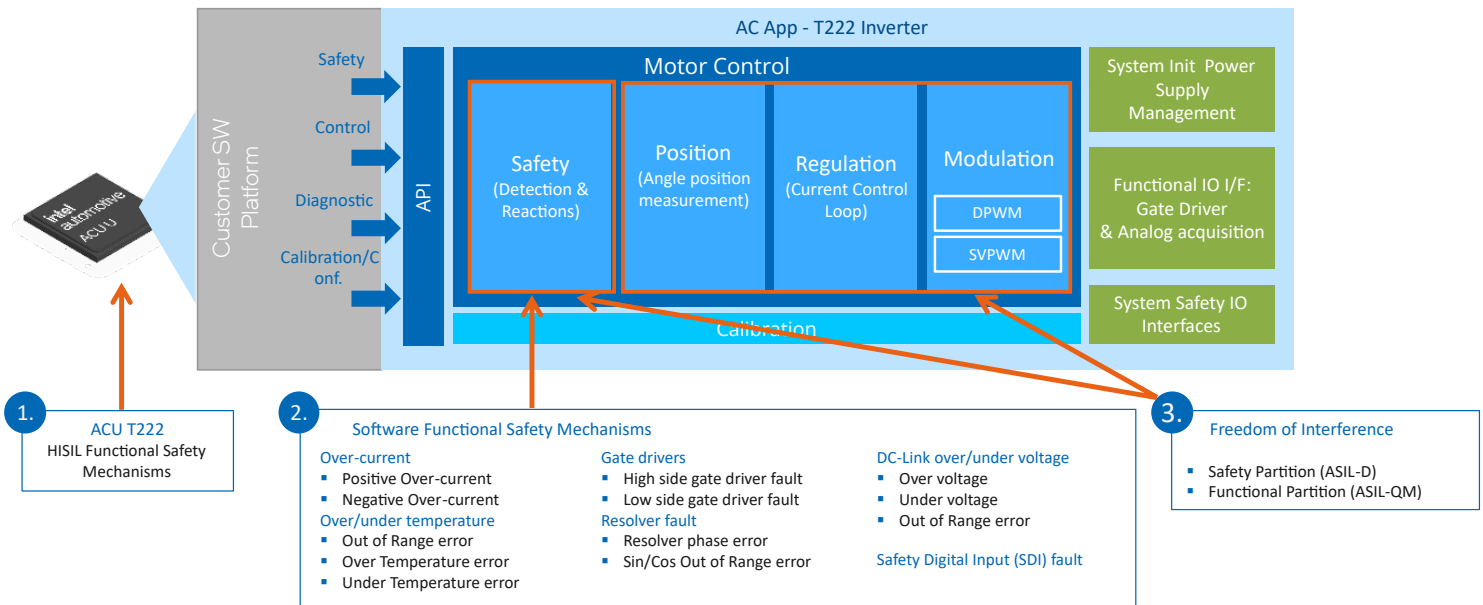


AC App – T222 Inverter functional safety features

AC App - T222 Inverter is an **application software for ACU enabling best in class control of electrified powertrains**. Its functional safety is built upon 3 key elements: the hardware resources of the ACU, the software safety mechanisms and the software architecture.



Deliverables:

- Certificate and certification report
- Safety Manual
- FMEDA calculation sheet
- Errata

AC Composer & AC Lib - functional safety scope

AC Composer and AC Lib are software tools to develop safety-related software and applications up to ASIL-D. The scope of qualification to ISO 26262 includes:

- Our products:
 - AC Lib T222 Target
 - AC Lib T222 MATH
 - AC Composer T222 Target Framework
 - ARM CC compiler
 - AGILIS Precision RTL
- MathWorks
 - MATLAB
 - Simulink
 - Embedded Coder
 - HDL Coder

Safety Manual reports:

- The Tool Confidence Level (TCL)
- The qualification test protocols for TCL > TCL1
- The behavior under anomalous operating conditions and associated safety measures
- The assumptions of use

Deliverables:

- Certificate and certification report
- Safety Manual
- Tool Criteria Evaluation report (TI, TD, TCL)
- Tool Qualification Plan
- Anomalous conditions analysis reports
- Defect Reports

Safety work products records - available for audit

Silicon Mobility keeps records of comprehensive functional safety related documentations. Among them includes:

- Development process design rules
- Verification specification
- Report verification
- Functional requirement
- Safety requirement
- Dependent Failure Analysis report
- Traceability Matrix