



### Client Challenge

- HW/SW-development of Electronic Parking Brake (EPB) system in customer's role of a T1-supplier for many major OEMs
- Generic platform solution for engineering efficiency reasons to be derive into sep. branches for specific customer applications
- Complex system interface incl. SW modules to run on 3rd party host ECU as well as cross-interchangeability demands acc. VDA-recommendation
- High functional safety demands up to ASIL D
- Dense sequence of individualized DVRs required for system releases for specific vehicle models and OEMs
- Varying quality of available ISO26262 Workproducts due to legacy-documents and different development teams/authors

### Activity

- Review and visualization of various development-tracks and baseline-histories of platform and application projects in DOORS incl. versioning-branches (SaP, FSC/TSC, ...)
- Authoring of Item Definitions and DVRs for platform and application projects and systematization of templates
- Definition of a systematic process for documents referred in ISO-workproducts incl. id, naming and status followup for proper versions and export of uptodate project-lists
- Identification of test-coverage and gaps in test&ver-trace incl. management of required clarifications

### Benefit

- Delivery of Item Definitions and DVRs in more harmonized appearance across authors/teams, incl. instructions
- Easier identification and backward-traceability of workproduct dependencies from application/release to platform docs
- Better workproduct acceptance by Safety Assessor due to higher consistency in document references resulting in less rework effort and signature iterations before SOP

### Key Technologies and Methods:

- ISO 26262
- Design Verification Report
- Item Definition
- Safety Concepts | FSC, TSC
- VDA 305-100 | EPB
- Platform vs. Application
- RE and RM | DOORS
- Document-Management | PTC

