

Software Qualification

Our Software Qualification services for Smart Devices

Fulfilling safety requirements for Software Qualification with proven methods

Challenge

Nuclear power plants have to use growing numbers of smart devices. Industrial equipment like programmable logic controllers (PLCs) or transmitters is available, but the existing qualification levels are only partly compatible with nuclear requirements and standards. New hardware and/or rapid new software releases make re-qualification mandatory. Industrial equipment cannot be installed in safety applications without additional nuclear qualifications.

Solution

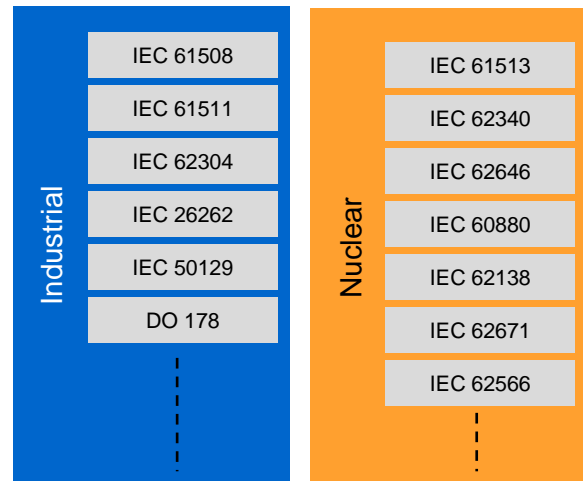
Our methodology for software-qualification of smart devices is state-of-the-art and meets authority requirements for approvals. Through our software qualification services we assess all safety functional features in accordance with project specific nuclear requirements such as:

- Fully traceable configuration
- Plant specific interfaces
- Plant specific documentation
- IT security
- Application of software life cycle
- Effects of hardware/software integration on safety functionality
- Analysis of hardware and software-interfaces and the possible impact of failures
- Quality and qualification of new software, qualification assessment of pre-developed software
- Consideration of specific designs

Customer benefits

- Rely on worldwide network and experience in software qualification methods based on numerous international standards (e.g. IEC, RCC-E, ...)
- Reduced risks of qualification approval rejection by the authority by applying Framatome's proven methodology

Your performance is our everyday commitment



Technical information

Experience in software qualification with international regulations for smart electrical and field devices.

Licensing and suitability demonstrations in accordance with national standards such as YVL, KTA, RCC-E, HSK, KBE/TBE, etc.

Software-qualification applicable for all kinds of devices :

- Electrical protection
- UPS (Uninterruptible Power Supply)
- PLC (Programmable Logic Controller)
- Pressure transmitter
- Level measurement
- Flow meters, etc.

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