Developing high-quality software is tough. ECLAIR is designed to help development, QA, and safety teams reach their quality goals

ECLAIR FuSa Pack

ECLAIR FuSa Pack completes the ECLAIR functional safety ecosystem: it facilitates and accelerates the development of functional-safety applications in most industry sectors. The ECLAIR FuSa Pack, which can be licensed for single projects or for multiple projects, includes a TÜV SÜD certificate along with the certificate report and all the documentation needed to help qualify your development environment for multiple functional-safety standards.

1 Contents

1. TÜV SÜD certificate for the suitability of ECLAIR to be used in safety-related development projects according to:

   IEC 61508:2010 for any SIL;
   ISO 26262:2018 for any ASIL;
   EN 50128:2011 + A2:2020 for any SIL;
   IEC 62304:2006 + Amd 1:2015 for any software safety class;
   ISO 25119:2018 + Amd 1:2020 for any SRL;
   EN 50657:2017 + A1:2023 for any SIL;
   ISO 19014-4:2020 for any MPLr.

2. *ECLAIR Safety and Security Manual*, which contains all you need to know on the use of ECLAIR for the development of safety-related systems:

   - it covers all aspects of installations and use, including the ineludible security measures that modern development environments require;

   - it provides a precise mapping of the qualifiable ECLAIR functionality to the techniques, measures and objectives of all the mentioned functional-safety standards;

   - it provides tool classification and qualification information for that standards;

   - it includes ready-to-use checklists that facilitate ensuring that nothing has been missed and providing evidence to certification bodies and other stakeholders.

3. TÜV SÜD technical report detailing their examination of the ECLAIR Software Verification Platform with respect to functional safety —including functional safety management and safety lifecycle, applied safety development process, verification and validation procedures and activities— as well as safety information in the product documentation, including the *ECLAIR Safety and Security Manual*, the *ECLAIR User's Manual*, and BUGSENG's issue-tracking system.

4. Generous number of hours of consultancy services to facilitate the qualification process.

2 The Bigger Picture

ECLAIR is very flexible and highly configurable: it supports all kinds of software development work-flows and environments.

ECLAIR is fit for use in mission- and safety-critical software projects: it has been designed from the outset to exclude configuration errors that would undermine the significance of the obtained results.

ECLAIR is developed in a rigorous way and carefully checked with extensive internal test suites (tens of thousands of test cases) and industry-standard validation suites.

ECLAIR is based on solid scientific research results and on the best practices of software development.

ECLAIR's unique features and BUGSENG's strong commitment to the customer, allow for a smooth transition to ECLAIR from any other tool.

BUGSENG's quality system has been certified by TÜV Italia (TÜV SÜD Group) to comply with the requirements of UNI EN ISO 9001:2015 for the "Design, development, maintenance and support of tools for software verification and validation" (IAF 33).

BUGSENG is an Arm's Functional Safety Partner, and is thus recognized as a partner who can reliably support their customers with industry leading functional safety products and services.

For the most stringent tool qualification requirements, including those of RTCA DO-178C/DO-330 (aerospace), BUGSENG functional safety ecosystem includes the ECLAIR Qualification Kits and the ECLAIR Qualification Service.

For More Information

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bugSeng

**no shortcuts,
no compromises,
no excuses:
software verification done right**