LDRA Accelerates the Path to FACE™ Conformance

By integrating the Conformance Verification Matrix (CVM) as defined in the Technical Standards for Future Airborne Capability Environment (FACE™) editions 2.1.1 and 3.0 into its tool suite, LDRA has accelerated the path to certification. The LDRA tool suite supports all five segments of the FACE reference architecture (IOSS, OSS, PCS, PSSS, and TSS). Evidence of progress, verification artifacts, and metrics are automatically generated as testing activities progress in the tool suite. Placeholders representing expected deliverables provide guidance, and sample template documents expedite progress. The option to invoke the FACE Conformance Test Suite (CTS) within the tool suite ensures adherence from the start, and a FACE conformant data model ready for submission to the verification authority. In summary, the LDRA tool suite cuts through the complication of FACE standard adoption.

Benefits

• helps to achieve product delivery with agility, conformance, affordability, speed and excellence
• unifies FACE conformance efforts across multiple stakeholders
• minimizes FACE adoption overhead, and reduces Time-to-Market
• checks adherence to FACE coding standard and to detailed FACE requirements
• can easily be adapted to demonstrate compliance to standards like DO-178B/C, expanding market reach
• integrates MISRA, CERT, JSF and other coding standards into development environments that require evidential artifacts relating to safety and security standards
• identifies conformance gaps prior to submission to the verification authority
• is underpinned by LDRA’s ISO 9001:2015 certified Quality Management System, and the LDRA tool suite’s TÜV SÜD and SGS-TÜV Saar certification

Solution Details

• enhances and simplifies efforts in achieving verification and conformance
• imports FACE™ CVM into the LDRA tool suite
• leverages illustrative objectives or requirements to be fulfilled, based on the relevant FACE architectural segment
• provides guidance using placeholders to represent expected deliverables
• expedites progress by leveraging sample template documents
• confirms adherence to FACE coding rules using LDRA static analysis
• collates test results prior to VA submission by invoking the FACE CTS from within the tool suite
• generates reports, tables, pie charts and metrics reflecting the progress of each objective
• establishes and maintains traceability from requirements to conformance artefacts
• enables artifacts to be exported to the originating FACE CVM spread sheet