

EXPERTS IN V&V

VERIFICATION AND VALIDATION DOWN TO A SINGLE BIT

Two foundations of testing and product quality assurance are verification and validation. Those two terms are often confused, but the distinction is fairly straightforward:

Verification – answers the question: did we build our product in the right way?

Validation – answers the question: did we build the right product?

At TRITEM, we have specific expertise and experience required for mentoring in the field of distributed control systems' verification and validation. You need to validate and verify everything: your device, its control software, Human – Machine Interface (HMI), a combination of analog & digital inputs/outputs. Our products will not only help you automatically execute any test scenarios but also help make all the manual testing work much easier, more effective and less error-prone.

Our experts will make sure that the whole process conforms to binding norms and standards such as **EN 50657, EN 50129, DO-178, IEC 62279** or **ISO-26262**.

Some normative requirements (like those in railway or automotive industries) explicitly demand companies to include an independent entity dealing with the V&V activities, because it is known that only this way the developers will deliver safer and better products. TRITEM can act as an independent testing entity and set up a fully-professional, external testing team.

WHAT DO YOU GET?

- ✓ Comprehensive coverage of all the required testing activities, on all levels (starting from unit tests ending on system-acceptance tests)
- ✓ Manual and automated test support both on and off-site
- ✓ Independent feedback and information about the quality of your software, from an independent source
- ✓ Consultancy on defining a Verification and Validation process that conforms with the relevant standards