



RadICS Platform

Surveillance Testing Optimization

The RadICS Platform is robust, flexible, and scalable. It provides state-of-the-art functions, services, and safeguards for both safety and non-safety applications in the nuclear industry. The RadICS Platform components are designed to the latest IEC standards for safety-related service and the highest classified nuclear systems. The RadICS Platform consists of a Logic Module (LM), basic input/output modules Optical Communication Module (OCM), and specialty modules all housed in a seismically qualified chassis.

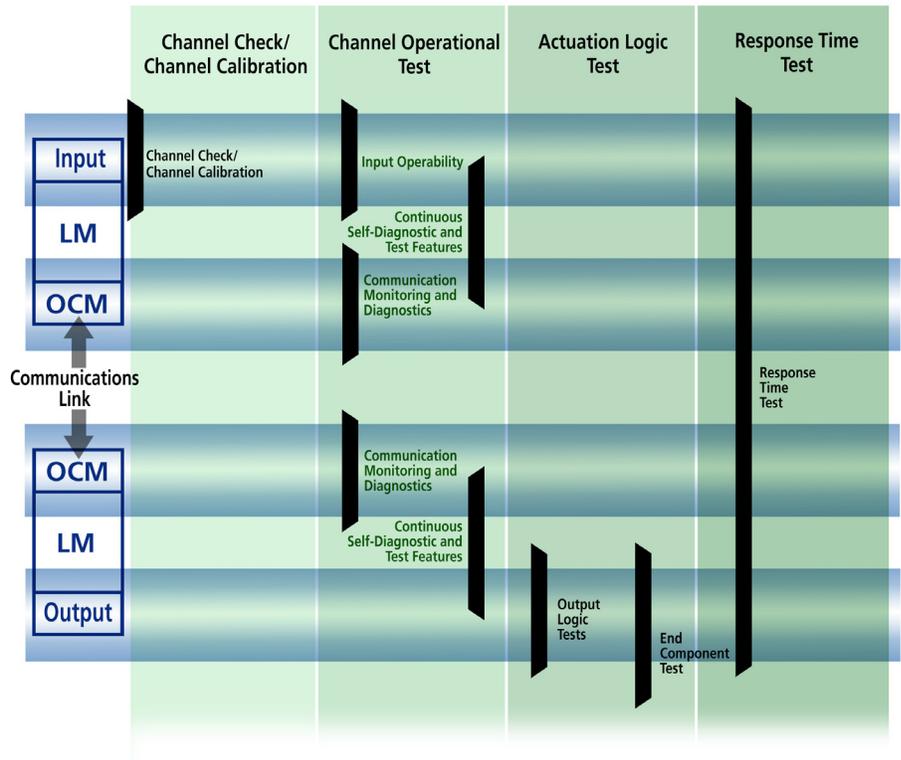
Effective surveillance activities are critical for the robust and reliable operation of protection systems.

The RadICS technology provides full or partial automation of the required surveillance activities. The automation can not only optimize and increase availability of these systems, but also provides cost reductions in plant operations and maintenance.

The RadICS Platform has extensive self-diagnostic testing features that can be used to streamline required surveillance activities and reduce burdens on plant personnel, allowing them to focus on other mission critical activities. These self-diagnostic features can be supplemented with additional engineered test features for a plant retrofit project to achieve greater automation of required testing to provide further benefits.

The RadICS Platform design features address all of the typical surveillance tests required by plant Technical Specifications (with sufficient overlap) and can be engineered for plant-specific details to support most other desired system tests.

The RadICS Platform can perform the surveillance tests needed during plant operation automatically without the need for human interaction using inherent platform self-diagnostics with some plant-specific interface adaptations. For testing that must be performed manually or during refueling outages, the RadICS Platform offers solutions that can automate aspects of the testing process to reduce human error and reduce the time required to perform the tests.



Protection systems utilizing the RadICS Platform can automate continuous surveillance testing or streamline surveillance tests using a series of overlapping tests. Surveillance test optimization will reduce testing-related human errors and provide cost effective solutions to increase system availability and even reduce outage activities and time requirements to complete system checkouts.

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20 Years of Innovation for the Global Nuclear Industry

For more than 20 years Radiy has provided advanced instrumentation and control (I&C) solutions for nuclear power plant modernization and new build projects in the global market. Radiy's main I&C product, the RadICS I&C Platform, was developed specifically for use in nuclear power plants. It is the only FPGA-based I&C platform with a SIL 3 certification in a single channel configuration. Radics, a wholly owned LLC, provides delivery services for the RadICS I&C Platform for international markets to meet local regulatory requirements. Radiy also offers industrial control systems, electrical equipment, and reverse engineering services.