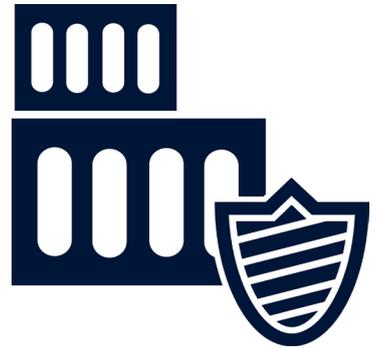# straton for IEC 61508
Safety certification

COPA-DATA France has developed a new straton Runtime for IEC 61508 SIL2* applications. Combining safety standard requirements and straton IEC 61131-3 advantages, it represents the perfect tool for secure automation systems.

IEC 61508 STANDARD

IEC 61508 is a worldwide standard that defines safety requirements for programmable electronic systems in five main Safety Integrity Levels, from SIL 0 to SIL 4, each category representing the capacity of a system to execute the safety function for which it has been created, from a low reduction of the failure rate (SIL0) to a high one (SIL4). The objective of Functional Safety is freedom from unacceptable risk of physical injury or of damage to the health of people either directly or indirectly (through damage to property or to the environment). In the software development market, this standard deals with three major functions: to demonstrate that the software is developed following specific methods detailed by the standard; to analyze risks and propose solutions; and to test and identify the different risks.

STRATON FOR IEC 61508

straton Runtime for Safety, also called the "T52 Runtime", is a new runtime specially designed for hardware manufacturers who want to have their system certified according to the IEC 61508 standard. All the key features and advantages of straton standard Runtime remain available, but with reduced access to those options deemed as "unsafe" by the standard. In this way, the runtime can be optimized and integrated with any hardware platform and with any operating system. To give customers the greatest possible flexibility, it is possible to communicate between the T52 Runtime and other non-SIL straton Runtimes.

HOW DOES IT WORK?

Working according to a highly specialized standard like IEC 61508 is surprisingly easy with straton T52 since the runtime is finely adapted to the requirements. Specific tools are provided to help you create your applications (code checker, auto-simulation tool, etc.). For additional customer support during certification, COPA-DATA France provides a safety integration manual and its support team is available to support you with the certification and Runtime integration.

FAST FACTS

▸ SIL IEC61131-3 runtime
▸ Hardware independent
▸ Support during the integration and the certification process
▸ Standard features remain available