Telit is a global leader in the Internet of Things (IoT) that has been connecting the world from the inside out for nearly 20 years. Telit offers the broadest portfolio of IoT products, software and services that drive mission critical IoT solutions across industries and markets worldwide. Telit serves thousands of customers, connects millions of things and manages billions of IoT messages.

The Internet of Things refers broadly to a network of connected smart devices that are able to connect and exchange data. The Internet of Things allows these connected devices – such as, smart thermostats, security alarm systems, smart vending machines, connected cars and wearables – to be managed and monitored remotely across an existing network infrastructure. This connectivity and interoperability via the Internet creates opportunities for more direct integration of the physical world into computer-based systems and results in improved efficiency, accuracy and economic benefit. Experts estimate that the IoT will consist of about 50 billion objects by 2020.

Offering one of the world’s most comprehensive portfolios of high-performance Internet of Things (IoT) modules, connectivity services and software, Telit serves thousands of customers, connects millions of things and manages billions of IoT messages. Knowing their services and software must be reliable, robust and secure, Telit understood the need to incorporate static analysis into their software development lifecycle to further improve their quality. After a thorough evaluation of their needs and available solutions Telit settled on CodeSonar from GrammaTech as the solution with the best fit to their safety and security needs.

Telit’s wireless modules are used in many different industries, including industrial and automotive applications. For this, the modules need to adhere to strict security and safety requirements. Telit required a solution that would allow them to satisfy these requirements while delivering efficient workflows for their developers.
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Telit has integrated CodeSonar into their software development processes, which include build and integration workflows using Gerrit, Jenkins and Git. Developers are prevented from committing code if CodeSonar reports a high priority warning. CodeSonar’s advanced search and compare capability allows Telit to compare between builds and track new versus resolved warnings and keep a keen eye on quality improvements initiatives. The cyclomatic complexity metrics that CodeSonar provides helps Telit to identify complex code that should be considered for refactoring.

In addition to checking their own code for warnings, Telit has used CodeSonar to assess the code of some of their suppliers, finding several problems in their deliverables, and is working with these suppliers to correct warnings in an effort to make their entire software development lifecycle more secure.

All said and done, CodeSonar helps Telit to achieve the safety and security that they need efficiently, allowing engineers to spend more time developing new and innovative features for Telit’s customers.