A hi-tech F1000 company makes high-performance radar systems for global markets. As the company purchases off-the-shelf radar hardware, it uses proprietary software to process the signals and greatly enhance the capabilities of the hardware. The end result is a unique and highly competitive product that has a higher performing system than traditional marketplace vendors.

**Challenge:**
The company’s success lies in its ability to use its IP to fabricate low-cost radar operations more efficiently than its competitors. Thus their primary concern is to protect their intellectual property (IP.) The company ships their systems both overseas and to 3rd party systems integration companies. In either case, the product is subject to customers being able to reverse engineer the software layer to discover their IP and produce a counterfeit version. Of course, this would negatively impact and destroy the business core revenue streams!

**Solution:**
Arxan’s comprehensive protection for code, keys and data made it the winning choice to serve the company’s protection challenges. As a first layer, GuardIT® for Linux was used to secure their IP against reverse engineering. The company’s team particularly appreciated the fine-grained nature of GuardIT protection, since sections of their code are performance critical and they can tune the amount of protection and Guard invocation locations to balance performance and security.

As a second layer, the company is evaluating the use of TransformIT®, which provides white box cryptography capabilities including secure data decryption. By leveraging TransformIT instead of traditional cryptographic libraries, the intermediate data files will remain protected throughout execution, further securing the company’s proprietary algorithms.

Finally, in order to proactively prevent a situation of piracy where customers might illegally lift the company’s software via code flow analysis from reverse engineering from it’s hardware and run it on other hardware, the company is considering the use of BindIT®. BindIT provides software-based node-locking and in this case would lock their software to their hardware.
Results:
The engineering team achieved protection of their proprietary yet performance sensitive software using Arxan’s GuardIT. Based on the success of this phase, the company is exploring deeper protection of its product using additional products from a single security partner- Arxan Technologies.

Throughout the customer launch phases including set up and deployment, Arxan was fully accessible and advised the company through issues and on security strategies, on a timely basis. Arxan’s technical support team remains continuously accessible to the company should any ongoing issues arise.

About Arxan Technologies
Arxan Technologies Inc. is the industry leader of application protection solutions that secure the App Economy. Arxan’s application protection secures mobile, desktop, server and embedded applications against tampering and reverse engineering attacks as an integral part of end-to-end application security. Our security defends against unauthorized use, insertion of exploits, piracy, and theft of intellectual property for global leaders in markets such as Fortune 500 enterprises, financial services, ISV, gaming and digital media to proactively defend the integrity of their code and business models. Arxan’s proven, scalable and durable application protection solutions defend, detect, alert and react to application attacks through a threat-based, customizable approach. Arxan Technologies is headquartered in the United States with global offices in EMEA and APAC.

For more information, please visit www.arxan.com.