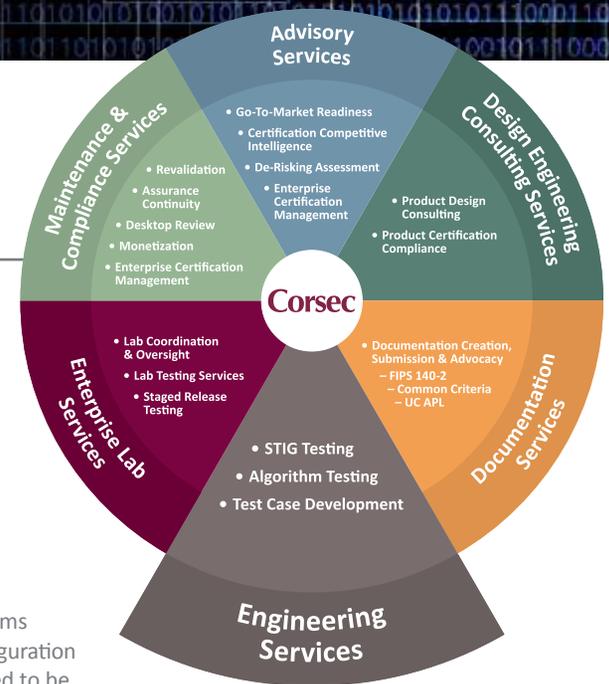


Corsec Engineering Services



Ease Internal Burdens

A complete validation involves more than documentation creation or design consulting. It also includes engineering engagements in algorithm testing and implementation (for FIPS 140-2), Test Case development (for Common Criteria), or STIG Testing (for UC APL). These services are beyond the traditional domain of documentation and certification consulting. Historically, most companies have taken to perform these tasks internally, not realizing the totality of the burden and cost on their organizations. Corsec's **Engineering Services** are a value-add-on to the certification process, and cover the following:

Algorithm Testing

The Challenge

As part of the FIPS 140-2 validation process, vendors are required to include CAVP-validated algorithms as part of their submission to the CMVP. This process requires algorithm development, testing and implementation. It is usually fraught with error and misunderstanding, resulting in costly delays which often jeopardize the project.

The Corsec Solution

Corsec's Algorithm Testing service effortlessly streamlines the notoriously labor-intensive, process-driven algorithm testing portion of the FIPS 140-2 validation cycle. We have deployed algorithm testing technology in our patent-pending **Ultima™** solution, which includes services to:

- Read the lab-provided request file and parse all test parameters
- Execute the algorithm as specified by the implementation
- Format the test parameters in the form specified by the vendor's implementation
- Receive results from the implementation
- Prepare data objects and perform test-specific initialization
- Format the resulting data as required by the lab
- Write the results out in the proper format for validation

Test Case Development

The Challenge

The Common Criteria certification process requires companies to support claims in their evaluation documentation through a set of well-written, detailed test cases that provide in-depth coverage of all security-centric functionality.

Companies must then produce test plans for the evaluation lab, including a detailed description of the test environment and any installation and configuration prerequisites. These plans must correspond to the evaluation design documentation and provide adequate coverage of each of the defined user interfaces. Too often, companies stumble through the process of attempting to deliver Common Criteria-approved test cases, causing the tie-up of over-taxed engineering teams for several months.

The Corsec Solution

Corsec develops and executes test cases on our clients' behalf and alleviates the burden on internal teams. We also provide test plans that are well-written, unambiguous and cover 100% of the necessary functionality with all of the required testing artifacts (screenshots, log files, etc.) and verification procedures. Our test plans are in a lab-ready format for execution.

STIG Testing

The Challenge

The Defense Information Systems Agency (DISA) establishes configuration standards for products intended to be part of a Department of Defense (DoD) network. These standards are captured in a Security Technical Implementation Guide (STIG). The DoD currently supports dozens of STIGs, each one pertinent to a specific product category. In order to achieve listing on the UC APL, products must adhere to the STIGs relevant to their product types. DISA determines which STIGs a vendor must meet. Each STIG that is imposed on a product can require a significant investment in time and resources, as product changes and enhancements may be required, in addition to the detailed effort spent proving adherence to each.

The Corsec Solution

Corsec's STIG Testing capability streamlines this process. We perform vendor advocacy for particular STIGs, conduct STIG testing, and complete the Self-Assessment Report.

Why Corsec?

Corsec is the global leader in providing access to new markets via IT security validations. With the largest staff of experts in the industry and a comprehensive solution that spans consulting, documentation, testing, enterprise lab services, and strategic product roadmap planning, Corsec has secured more than 350 FIPS 140-2, Common Criteria and UC APL certifications for hundreds of organizations on five continents over the last 15 years.

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