

# DEFEND. THEN DEPLOY.

## DEFENSICS The Preemptive Security Test Platform

Codonomicon leverages its in-depth understanding of security and quality testing at the infrastructure, network and application protocol level. Unlike code and web application analyzers, and vulnerability scanners, Codonomicon DEFENSICS security and robustness test platform identifies device, software and service issues in advance of the threat - without the burden of requiring expert resources, source code access, in-depth product knowledge, defining additional test cases, and materially prolonging test processes.

The DEFENSICS test software intelligently asserts targeted attack patterns against application protocols to discover irregular response, slower system reaction or terminated processes or system crashes – all of which can expose operational and security risks. By delivering targeted negative test parameters systematically, testers can quickly identify flaws, failures and vulnerabilities as well as validate bug resolution from the exact construct of a system under test.

Codonomicon DEFENSICS addresses ISO development and test compliance due process standards. More importantly, identified exposures can be mitigated before liabilities and post-fix costs become significant. By extending rigorous test capability, users can avoid costs associated with upgrades, patches, recalls, service interruptions, brand reputation damage and security breaches.

**Codonomicon DEFENSICS preemptive security and robustness testing solutions empower customers to mitigate unknown and published threats in products and services prior to release or deployment - before systems are exposed, outages occur and zero-day attacks strike.**

Founded in 2001, the company was spun out of the successful Protos test tools research of the Oulu University Secure Programming Group. Years later, the world-proven Codonomicon DEFENSICS platform remains unmatched in its ability to quickly find quality, resiliency and security flaws within the broadest array of applications. Thousands of developers and security analysts across telecommunications, networking, manufacturing, financial services and defense industries rely on Codonomicon to reduce costly reputation, quality and compliance risks.

Headquartered in Oulu, Finland, with offices in Silicon Valley and Hong Kong, the company markets its testing software and services directly and through international partners. Codonomicon's customers include Adobe, Alcatel-Lucent, AT&T, Cisco Systems, Nordea, Nortel, Microsoft and Siemens AG among many others. The company is privately held with investments from Eqvitec Partners and Prime Technology Ventures.

**The Issue: Greater attack velocity, organized cybercrime and service disruptions have elevated the need for more extensive security and robustness assessment of devices, applications and systems.** Security and quality testing at all levels has become a best practice. However, barriers towards developing and maintaining adequate testing methods that help customers stay ahead of the threat still persists in the market. This is due to:

- Flawed commercial, consumer and corporate applications
- Increased development and deployment release pressures
- Shortage of security resources and expertise
- Unpredictable zero-day attacks, patches and system availability issues

Codonomicon's objective is to ensure the security and robustness of any application or service implementation. Development and security personnel in a lab or staged environment use Codonomicon DEFENSICS to fortify quality and security assurance – quickly, easily and reliably. The test software offers a systematic blackbox and negative test methodology uniquely capable of revealing un-desired behavior and issues in protocol implementations. Codonomicon teams its patent-pending Protocol Modeling Engine and Attack Simulation Engine with the industry's broadest protocol support covering network, wireless, and digital media. Thousands of pre-built, highly targeted and well-documented test cases allow users to start seeing results as soon as the platform is connected to the target system – accelerating time-to-value. **In short, if a product or service under test passes DEFENSICS inspection – risk management and quality assurance is strong.**



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