



GeNUScreen

With Web Application Firewall Module

Web Applications Need Special Protection

Customer portals, online stores or online banks are highly vulnerable: Attacks such as SQL injection, cross-site scripting or session hijacking are geared towards vulnerabilities – not of the network level, but of the respective web application. But the target of the attacks remains the same – your confidential company information. To comprehensively protect your information we have integrated the security technology of art of defence, the German experts for Web application security, as an add-on to our GeNUScreen firewall. To put it briefly: We are your one-stop partner for comprehensive IT security!

Stateful Packet Filter GeNUScreen

GeNUScreen is a highly effective firewall: It filters data traffic, checks every packet and allows only specifically permitted connections – all other requests are stringently blocked. On top of that, our firewall can encrypt your data for safe transfer over public networks, and its intelligent bandwidth management guarantees optimum data flow. The exceptional quality of GeNUScreen has been endorsed by a certificate from the

German Federal Agency for Security in Information Technology (BSI) in agreement with CC EAL 4+.



BSI certified: GeNUScreen Firewall

The Challenge: The Web

The Web, specifically the HTTP protocol, was not designed for the complex applications that are common nowadays. Many typical weak spots can be attributed to this. HTTP is ineffective in many ways – sessions or application states have to be separately defined and securely implemented. These weak spots are exacerbated by the complexity and diversity of popular Web scripts, frameworks and Web technologies.

The Response: “Complete Sealing” of the Web Application

Our Web application firewall technology analyzes HTTP requests before they reach the application. An optimized combination of white, black and gray list procedures, pattern recognition of known attacks and various statistical

methods evaluate each request to determine its potential danger. Complete sessions are also tracked here. Properly configured, the Web application firewall will only transmit appropriate requests – the equivalent of a “full sealing” of the application. In particular, weak spots of the application are protected from exploits that have not yet been discovered, or could not be patched yet. All this can be done without changing the application in any way!

Two Modules: WAF and Enterprise WAF

The module “Web Application Firewall” (WAF) offers all the features needed to protect small Web infrastructures. In addition to detailed analysis of HTTP requests, secure session handling is implemented with secure cryptographic session IDs and defined session timeouts. Based on Secure CookieJar, the safe handling of cookies and thus secure state management is ensured. Furthermore, compulsory “entry points” can be configured to define permitted entry pages, directing certain user groups to desired paths. The module “Enterprise WAF” supplements basic functions with typical Enterprise features such as multi-client capability.

Security first.



Highly Available Clusters

GeNUScreen with the Enterprise WAF module can be deployed in highly available clusters, and is easily managed via the integrated GUI. Administrative domains of responsibility ensure that different persons can manage their respective company Web applications with individually defined access rights.

Easy Management

The intuitive Web-based user interface makes defining and managing the various security functions easy. In "Basic Mode", numerous wizard functions help set up the configuration, while the "Expert Mode" allows for individual and granular settings. Thus, configuration management is simple and flexible at the same time. Both WAF modules offer comprehensive reporting functions such as real-time statistics, as well as various time-based security status evaluations.



Clear and concise: WAF reporting

About art of defence

art of defence is a Web application security expert. The company is located in Regensburg (Germany) and is the first German provider of purely software-based Web application security, protecting critical Web applications from attacks not recognized by conventional security solutions such as firewalls or

What Enterprise WAF offers:

- Comprehensive request verification and secure session handling
- Secure state management of your Web applications
- Site usage enforcement
- Training mode with rule templates and suggestions
- Central cluster administration
- Multi-client capability for status-based access privileges

anti-virus programs. The art of defence software blocks illegal access to Web application database backends and operating systems with critical company, customer and product information – even during transactions, when systems are open and vulnerable to attacks.

About GeNUA

GeNUA, Gesellschaft für Netzwerk und Unix Administration, is a German expert in IT security. Since the founding of the company in 1992, we have been working on making networks more secure, using mature and sophisticated solutions. Our services includes state-of-the-art firewalls endorsed by certificates from the German Federal Agency for Security in Information Technology (BSI), intelligent link balancing for Internet connections, VPN and remote maintenance solutions, and a wide range of consulting services. Many companies and security-oriented public agencies rely on solutions from GeNUA for the protection of their IT systems.



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