All-In-One Application Delivery Controller

ALL-INCLUSIVE FOR FAST APPLICATIONS

HIGH PERFORMANCE MULTI GIGABIT APPLICATION GATEWAY

eMARA

SINGLE UNIT XXL

- ✔ Unlimited # of Applications
- ✔ Unlimited # of Backends
- ✔ Redundant Power Supply
- ✔ HW Remote Management
- ✔ 2 x 2 TB log space (RAID 1)
- ✔ 6 x 1 Gbps RJ45

ONE-STEP SOLUTION

Reverse-Proxy with Web Application Firewall combining Single Sign-On, load balancing, SSL offloading, application layer security and content acceleration.

FLEXIBLE SOLUTION

Plenty of available features and flexible licensing allow a perfect fit to your specific scenario and needs. Delivered as dedicated hardware appliance or stand-alone software.

INNOVATIVE GUI

Allowing for centralised, convenient, and effective configuration, reporting, and assessment.

FULL REPORTING & THREAD ANALYSIS

Graphical reports on performance, usage, system health, detected attacks and many more available. Management can access reports to efficiently control and coordinate tasks and next actions.

Complete Application Delivery Reverse-Proxy

- Layer 7 HTTP & HTTPS Reverse-Proxy
- URL-, HTML- & Content-Rewriting
- High-Availability-Cluster support
- Header-Rewriting with LDAP support
- IPv6 Gateway, publishing IPv4 applications via Ipv6

Application-Layer Security: Web Application Firewall

- Powerful protection against most common attacks
- Generic attack detection:
  - ✔ Email-, SQL-, HTML-, command-, filename and header-injection
  - ✔ HTTP anomalies, e.g. Response Splitting
- Fine-grained rules for less false-positives
- Information Leakage prevention, outbound Data Theft protection
- PCI DSS compliance
- Cookie-encryption and -signing to prevent:
  - ✔ Cross-Site Request Forgery/Session Riding
  - ✔ Session Hijacking/Fixation, Cookie Tampering
- Antivirus scanning

Authentication & Authorisation Control Framework

- eMARA as Single Sign-On portal solution
  - ✔ Central access control management
- LDAP & Active Directory based access control
- Cookie-authentication using external backends
- Client-Certificate verification

SSL Offloading and Content Acceleration

- Reduced backend server load
- Session-Aware load balancing with HA-failover
- Intelligent and/or user-defined content caching
- Advanced TCP-connection pooling & reuse
- Compression Offloading:
  - ✔ Improved user experience
  - ✔ Lower bandwidth consumption

Powerful Network Firewall

- Flexible deployment: inline or routed
- High performance stateful firewall
- Layer 4 load balancer: TCP & UDP
- IP-Address spoof protection
- Advanced network management:
  - ✔ IEEE 802.1Q Layer 2 VLAN
  - ✔ IEEE 802.1AX Bonds
  - ✔ IEEE 802.1D Bridges

Control & Management

- Detailed real-time reporting
- External monitoring via SNMP
- Remote-Syslog support and live logs
  - ✔ Local log space on RAID 1
- Enhanced re-usability of settings
- Easy online-update system
- Distinct administrator-roles
- Centralised management of certificates
- Shell-access (CLI) via serial console, VGA, or SSH
- Alerts & monitoring system (Email & SNMP Traps)
- Transaction-based commit-system

Network Appliances
Securing Your Freedom

MARA SYSTEMS

POWERFUL & ROBUST

Proven with hundreds of clients and guaranteed performance featuring latest technologies.

HIGH PERFORMANCE

Highly integrated, application-specific appliances with hardware provided from one source for best performance.

RELIABLE PLATFORM

Exceptionally optimized and hardened Linux platform, tailored for high availability, security, and performance needs. System booting from read-only, compressed image.

COST EFFECTIVE

Robust and cost-effective. Save costs and time spent on managing your Web Application infrastructure.

SERVICES / SUPPORT

- Dedicated technical support
- Expert consulting
- Installation & Configuration
- Ongoing maintenance
- Firmware upgrades
- Hardware warranty
- Product manuals & FAQs

Product & Technical Specifications

Q1 2018	S	M-1U-0402	L-2U-0804	XL-2U-0804	XXL-2U-0804
Max. # of applications	3	6	12	25	Unlimited
Max. # of backend servers	5	10	25	50	Unlimited
RAM	8 GB	16 GB ECC	32 GB ECC	48 GB ECC	64 GB ECC
Total log space	1 TB	2TB	2 x 2TB	2 x 2TB	2 x 2TB
RAID 1	-	-	✓	✓	✓
Number of Gigabit RJ-45	1	2	4	4	6
Max. # of additional network cards	1	1	5	5	5
Redundant power supply	-	-	✓	✓	✓
Hardware remote management	✓	✓	✓	✓	✓
Disk hot-swap	✓	✓	✓	✓	✓
Form factor rackmount	Software only	1U	2U	2U	2U
Optional Upgrades					
Authentication & Authorization	-	✓	✓	✓	✓
Max. # of auth. backends	0	1	2	4	Unlimited
Web Application Firewall (WAF)	✓	✓	✓	✓	✓
1 Gbps RJ-45 or fiber	✓	✓	✓	✓	✓
10 Gbps RJ-45 or SFP+	-	✓	✓	✓	✓

Enhanced Protection & Performance

If your company provides B2B-, B2C-, online-, Intranet-portals or web applications in general, you need technology that can provide security, confidentiality, authentication, flexibility, high performance, and availability. eMARA is the integrated front-end solution that provides all of those functions in one box.
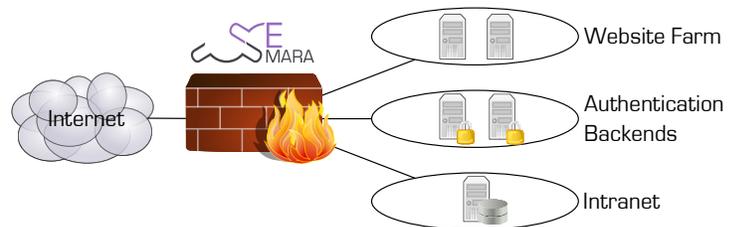
Like normal firewalls, eMARA may block direct database access from outside. In addition, the WAF allows eMARA to detect harmless-looking HTTP-Traffic that tries to fool the accessible web application in order to place the attack in its name. This SQL-Injection scenario is only one single example under the plenitude of threats.

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