Internet Management System

MADE IN GERMANY

WEB MARA

SINGLE UNIT XXL

- ✔ Unlimited Concurrent Users
- ✔ 2 x 2 TB log space (RAID 1)
- ✔ Redundant power supply
- ✔ Optional caching
- ✔ Optional authentication
- ✔ Optional anti-virus scanning
- ✔ Optional content filtering

COMPLETE SOLUTION

BANDWIDTH SAVINGS

Highest bandwidth savings (BHR – Byte Hit Ratio) and bandwidth gain on the market. Supporting the most different content classes and including special optimizations for all popular services and sites.

BROWSING ACCELERATION

Small objects cached and served from high performance Solid State Disks (SSDs). This improves Internet browsing experience significantly.

CDN CACHING

Unique caching mechanism, highly accurate for arbitrary caching of videos and large rich media files from Content Delivery Networks (CDNs).

POWERFUL POLICIES

Define different policies for different groups of users. Use filtering based on user name, user group, IP address, destination IP, destination domain, destination URL, MIME type, regular expressions and time-of-day filtering to define fine grained policies.

Innovative Secure Web Gateway

- Full featured HTTP & FTP proxy
- Transparent or explicit deployment
- Powerful access control rules
- Access control based on users and user groups
- Custom Policies (Content Filtering)
- Advanced proxy hierarchies support:
  - ✓ Client IP
  - ✓ Authenticated user name
  - ✓ Round robin distribution
- Persistent connections to clients and servers
- Automatic alerts via SNMP or email
- Bandwidth management
- Embedded high performance stateful firewall

Authentication & Authorization

- User & Group-based Authentication:
  - ✓ LDAP
  - ✓ Digest LDAP - HTTP Digest auth LDAP backend
  - ✓ MS Active Directory with / without Single-Sign-On
- Supporting multiple auth backends at the same time

Real-time Web Content Filtering

- Local database and real-time cloud based ratings
- Over 100 predefined categories of Internet sites
- Realtime rating and analysis of threats
- Custom local policies

Dynamic Anti-Virus Scanning

- Unique high performance framework
- Multi-theaded implementation
- Compressed archive analysis

Bandwidth Optimization & Caching

- Optional full HTTP & FTP caching
- Same caching engine as in CacheMARA
- Own proprietary caching technology
- Video-On-Demand caching (Netflix,...)
- Partial object caching (HTTP range requests)
- Content Delivery Networks (Akamai, EdgeSuite,...)
  - ✓ Caches and de-duplicates content that comes from different CDN hosts
- Caching static & dynamic content:
  - ✓ Antivirus and software updates
  - ✓ Filehoster/Sharehoster/One-Click-Hoster
  - ✓ Games (EA, Playstation, Steam, Xbox,...)
  - ✓ OS updates (Apple, Linux, Windows, Mobile,...)
  - ✓ Videohoster (GoogleVideo, Youtube,...)
- HTTP-based live streaming:
  - ✓ HTTP Live Streaming (HLS)
  - ✓ HTTP Dynamic Steaming (HDS)
  - ✓ HTTP Smooth Streaming (HSS)
- High bandwidth savings because of multiple terabytes of cache storage for large objects
- Acceleration of browsing because of small object caching on high performance Solid State Disks.

Management & Reporting

- Innovative and intuitive Web GUI (Multilingual)
- Command line interface via serial console & ssh
- Appliance status and live monitoring
- Real-time and historical statistics by day, wekk, ...:
  - ✓ System resources, network traffic, HTTP caching performance,...
- Comprehensive HTTP usage reports:
  - ✓ Top 1000 Sites, Top 1000 Users
- Flexible HTTP proxy logging facilities

Network Appliances
Securing Your Freedom

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MARA SYSTEMS

Internet Management System

ANTI-VIRUS SCANNING

Innovative integration allows fine grained control about which content to be scanned.

CONTENT FILTERING

Unique onbox integration of McAfee SmartFilter allow access control policies to use over 100 different categories of sites.

OPTIMAL PERFORMANCE

Highly integrated and application specific appliance hardware from one source for stability.

RELIABLE PLATFORM

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

SERVICES / SUPPORT

- Dedicated technical support
- Expert consulting
- Installation & configuration
- Maintenance updates
- Firmware upgrades
- Hardware warranty
- Product manuals & FAQs

Product & Technical Specifications

Q1 2018	XS	S	M-1U-0202	L-1U-0402	XL-2U-0804	XXL-2U-0804
Max. # concurrent users	100	250	500	1000	2000	Unlimited
Active TCP connections	15k	30k	60k	100k	200k	Unlimited
RAM	4 GB	8 GB	16 GB ECC	32 GB ECC	48 GB ECC	64 GB ECC
Redundant power supply	-	-	-	✓	✓	✓
HW remote management	-	-	-	✓	✓	✓
Disk hot swap	-	-	-	✓	✓	✓
Form factor rackmount	Software only		1U	1U	2U	2U

Optional HTTP Caching	XS	S	M-1U-0204	L-1U-0408	XL-2U-0816	XXL-2U-1224
	Software only					
HTTP request/s	600	1,250	2,500	4,000	8,000	12,000
RAM	8 GB	16 GB	32 GB ECC	48 GB ECC	64 GB ECC	64 GB ECC
SSD space	120 GB	120 GB	120 GB	240 GB	480 GB	960 GB
HDD space	2 x 2 TB	2 x 2 TB	2 x 2 TB	4 x 2 TB	8 x 2 TB	12 x 2 TB
Total log space	250 GB	500 GB	500 GB	500 GB	500 GB	500 GB
Total cache space	3.75 TB	3.5 TB	3.5 TB	7.5 TB	15.5 TB	23.5 TB

Optional Authentication & Authorization (LDAP. AD...)						
Max. # auth backends	-	1	1	2	4	Unlimited

	XS	S	M	L	XL	XXL
Optional Anti-Virus	-	✓	✓	✓	✓	✓
Optional Content Filtering	-	✓	✓	✓	✓	✓

Optional Network Ports						
1 Gbps RJ-45 or Fiber	-	-	✓	✓	✓	✓
1 Gbps RJ-45 or SFP+	-	-	-	-	✓	✓

Comprehensive Statistics and Reporting

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