

## **Internet Management System**

## 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

## 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

## **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





# **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

Network Appliances

Securing Your Freedom

Product & Technical Spec	ifications
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Q1 2024	XS	S	M-1U-0202	L-1U-0402	XL-1U-0404	XXL-1U-0404		
Max. # concurrent users	100	250 30k	500	1000	2000	Unlimited		
Active TCP connections			60k	100k	200k	Unlimited		
RAM	4 GB	8 GB	16 GB ECC	32 GB ECC	64 GB ECC	96 GB ECC		
Redundant power supply	-	-	-	-	$\checkmark$	$\checkmark$		
HW remote management	-	-	$\checkmark$	✓	$\checkmark$	✓		
'			Disk hot swap		-	<b>v</b>	<b>V</b>	$\checkmark$
Form factor rackmount	Softwa	re only	1U	1U	1U	1U		
Optional HTTP Caching	XS	S	M-1U-0204	L-1U-0408	XL-1U-0812	XXL-1U-0816		
	Softwa	re only		2100100		, . L 10 00 10		
HTTP request/s	600	1,250	2,500	4,000	8,000	12,000		
RAM	8 GB	16 GB	16 GB ECC	32 GB ECC	64 GB ECC	96 GB ECC		
NVMe space	120 GB	120 GB	240 GB	240 GB	2 x 240 GB	2 x 480 GB		
SSD space	2 x 2 TB	2 x 2 TB	2 x 2 TB	4 x 2 TB	6 x 2 TB	8 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	11.5 TB	15.5 TB		
Optional Authentication & Authorization (LDAP. AD)								
Max. # auth backends	-	1	1	2	4	Unlimited		
Optional Anti-Virus	-	$\checkmark$	$\checkmark$	✓	$\checkmark$	$\checkmark$		
Optional Content Filtering	-	$\checkmark$	~	$\checkmark$	~	~		
Optional Network Ports								
1 Gbps RJ-45 or Fiber	-	-	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$		
1 Gbps RJ-45 or SFP+	-	-	-	-	$\checkmark$	$\checkmark$		

## **Comprehensive Statistics and Reporting**

≪W/FB	HTTP prox	y access log analysis						
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s ¥	Top sites by	requests	R					_
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/stem logs	1. 📕 90		1272	10.6%	4.172 MB	2.0%		۲
General log	2. 📕 00		714	5.9%	6.105 MB	3.0%		
Kernel log	3. N		595	4.9%	2.761 MB	1.3%		
Cron log	4. 📕 ba		574	4.8%	4.621 MB	2.3%		
NTPD log		strt.de	514	4.3%	6.100 NB	3.0%		
ITTP proxy logs	6.		399	3.3%	0.465 NB	0.2%		
Usage reports		o***.com	371	3.1%	0.099 NB	0.0%		
Proxy cache log		n***.de	312	2.0%	0.402 NB	0.2%		
Proxy access log	9.		258	2.1%	0.877 MB	0.4%		
Proxy access log 2	10.		251	2.1%	1.533 MB	0.7%		
Antivirus proxy log	11.		249	2.1%	0.661 MB	0.3%		
ClamAV log	12		245	2.0%	2.091 MB	1.0%		
TP proxy log	13. 40		229	1.9%	0.454 MB	0.2%		
DNS log		10***.com	229	1.9%	1.459 MB	0.7%		
ups & Objects 🕨	14. gr		229	1.9%	0.969 MB	0.5%		
work setup			210	1.0%	0.419 MB	0.3%		
wall +	16. 📕 at							
P proxy +	17. 🚺 ub		194	1.6%	1.468 MB	0.7%		
Proxy +	18. 📕 50	feet, com	192	1.6%	0.403 MB	0.2%		
	Top sites by							
		Ste	Traffic	%	Requ.	%		•
	1. 🗾 nv		137.9 MB			1.1% 🔺		~
	2. 📕 93		6.105 MB			5.9%		
	3. 📕 cir	stitt.de	6.100 MB			4.3%		
	4. 📕 614	**.com	5.599 MB			0.0%		
	5. 📕 ba	r***.com	4.621 MB	2.3%	574	4.8%		
	6. 📒 90	o***.com	4.172 MB	2.0%	1272	10.6%		
	7. 🗾 he	(***.de	2.761 MB		595	4.9%		
	8. 📕 ad	lo***.com	2.091 MB	1.0%	246	2.0%		
	9. 📕 we	d***.com	1.533 MB	0.7%	5 251	2.1%		
	10. 🚺 ub	u***.de	1.468 MB	0.7%	194	1.6%		
		no***.com	1.459 MB	0.7%	229	1.9%	the second s	
		1***.com	1.205 MB	0.6%	24	0.2%		
		***.de	0.969 MB	0.5%	218	1.8%		
	14. wd		0.877 MB		258	2.1%		
		ittt.de	0.805 MB			0.8%		
	16. um		0.741 MB			0.6%		
	17.		0.726 MB			0.0%		
English	18.		0.725 MB			1.5%		
		1.100	0.723 MB	0.47	105			_



