

Astaro Security Gateway V7

Sizing Guideline

Release 1.1

Astaro Security Gateway Appliances

This section provides a rough guideline for choosing the right Astaro Security Gateway Appliance for different scenarios. As performance may vary based on user characteristics, application usage, security configurations, and other factors, Astaro can not guarantee specific performance results.

The following matrix is based on "average" user traffic as defined below.

Max. recommended Users:	10	50	200	500	750	1000	1500	2000
Base	ASG 110	ASG 120	ASG 220	ASG 320	ASG 425	ASG 525		
Base + IPS								
Base + Web								
Base + Web + IPS								
Base + Email								
Base + Email + IPS								
Base + Email + Web								
Base + Email + Web + Encryption								
Base + ALL								

Note: The Astaro Security Gateway 110 is limited to 10 users by license. All other models are unrestricted users. Performance numbers are valid for ASG110/120 with 512 MB RAM. Please contact Astaro Technical Support for guidelines regarding models with 256 MB RAM.

- > **Base:**
Firewall + VPN
- > **Email Package:**
Virus Protection for Email + Spam Protection + Phishing Protection
- > **Web Package:**
Virus Protection for the Web + Surf Protection + Spyware Protection

The guideline above is based on average network traffic with roughly the following parameters (per user and 10h working day):

- 1-2 larger Web Downloads
- Internet access continuously spread over the whole working day, mostly use of webmail, ebay, google...
- 25-50 emails, 5% of all emails encrypted, 3 emails with 500 KB attachment

If application usage significantly exceeds traffic as defined above then you should choose an appliance with higher capacity according to the rules outlined in the following table:

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	Average User	Power User
Web Security		
# of downloads per user and day	1 - 2	> 3
web usage	Equally spread throughout the day	many peaks
web applications	mostly webmail / ebay / google	"Powerusers" (schools, universities)
Email Security		
# of mails per user and day	25 - 50	100
# of large mails per user and day	3 Mails ~500kB attachment	> 10 mails ~1MB attachment
Advanced Usage		
Snort in use	No	Yes
> 0.5 VPN tunnels per user	No	Yes
> 10 working hours per day	No	Yes
if at least 3 items apply in "Power User" column use unit with next higher capacity if at least 5 items apply in "Power User" column use unit with 2 levels higher capacity		

Astaro Security Gateway Software

The following table provides a rough guideline for choosing a typical system configuration when installing Astaro Security Gateway Software on Intel-compatible PCs or servers. Shown user numbers are average values for normal user traffic.

Typical System configuration					
CPU	Pentium II 800 MHz	Pentium III 1,2 GHz	Pentium IV 2,4 GHz	Pentium IV 3,6 GHz	Dual Xeon 3,6 GHz
Memory	512 MB	512 MB	1024 MB	2048 MB	4096 MB
Harddisk	20 GB	40 GB	60 GB	80 GB	120 GB
Base	50 Users	200 Users	600 Users	1500 Users	2500 Users
Base + Email	25 Users	120 Users	350 Users	1000 Users	1500 Users
Base + ALL	10 Users	50 Users	200 Users	500 Users	750 Users