



Sizing Guideline

Sophos UTM 9



This document provides a rough guideline for choosing the right Sophos UTM appliance for different scenarios. As performance may vary based on user characteristics, application usage, security configurations and other factors, we cannot guarantee specific performance results. Please consult an engineer certified by Sophos (or Astaro) for accurate sizing. The numbers provided represent maximum throughput achievable under perfect conditions, e.g., using large packet sizes*.

Sophos UTM Hardware Appliances

Model	UTM 100 rev.5	UTM 110 rev.5	UTM 120 rev.5	UTM 220 rev.5	UTM 320 rev.5	UTM 425 rev.5	UTM 525 rev.5	UTM 625 rev.2
Performance Numbers								
Firewall (Mbps) - maximum	250 Mbps	1 Gbps	2 Gbps	3 Gbps	3.5 Gbps	6 Gbps	23 Gbps	40 Gbps
VPN AES (Mbps) - maximum	60	100	190	500	700	780	900	1,000
IPS (Mbps) - maximum	60	130	240	640	1,300	2,600	3,300	5,800
App Control (Mbps) - maximum	70	150	250	750	1,500	2,200	5,000	7,000
Web Proxy - AV (Mbps) 2) 3)	35	50	70	165	235	700	560	980
UTM (Mbps) - average	10	25	45	95	140	300	265	575
RED 10 (Mbps) - maximum	N/A	25	50	80	120	270	280	360
Number of RED devices (UTM/FW)	N/A	5/10	10/25	20/80	40/130	80/340	90/380	150/500
Average number of Sophos Access Points	1	2	4	8	16	32	64	128
Web Application Firewall (Mbps)	N/A	40	85	230	240	300	320	365
Web requests/sec – AV scanned ²⁾	100	250	400	775	1,400	6,100	7,000	12,000
Emails scanned ²⁾³⁾ (max emails/h)	N/A	20,000	30,000	52,000	78,000	220,000	200,000	250,000
Emails seen ²⁾ (max emails/h)	100,000	150,000	250,000	400,000	600,000	1,600,000	1,500,000	2,200,000
Maximum connections								
New TCP connections/sec	1,180	1,180	1,180	6,400	12,500	16,700	17,800	18,300
Concurrent TCP connections	20,000	40,000	120,000	300,000	600,000	1,400,000	1,700,000	2,500,000
Concurrent IPsec VPN tunnels	5	10	25	125	400	800	2,000	2,000
Concurrent SSL VPN tunnels	5	10	20	35	65	180	320	340
Max. HTML5 sessions	N/A	5	10	20	35	70	80	100

1) recommended

2) Numbers are for single scan, throughput will decrease by 20-25% when activating dual scan

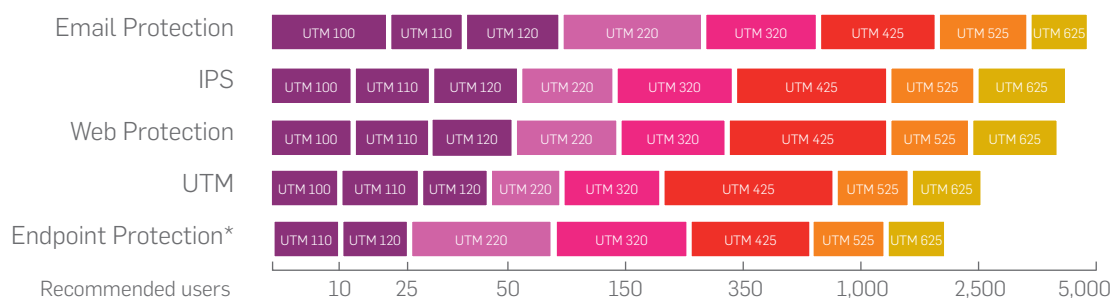
3) When activating additional features overall throughput will decrease roughly by the following percentage:

UTM Wireless Protection: 5-10%, Web Application Firewall: 10%, URL-filter: 10-15%, IPS: 60-70%

* For detailed information please refer to the "Sophos UTM - Performance Test Methodology" document.

Recommended users

The following user ranges are based on average usage and the most recent HW version of each model (see table above). They may vary depending on the actual environment and use of features. Please see the final section for more details.



* Recommended endpoints

All numbers also include users connected via Sophos RED or wireless access points.

Sophos UTM Software Appliances

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

Typical system configuration						
CPU	Intel Atom (1.6 GHz)	Celeron Dual Core (2.2 GHz)	Core 2 Duo (2.8 GHz)	Quad Core i5 (3.1 GHz)	2 * Dual Core Xeon (2.33 GHz)	2 * Quad Core Xeon (3 GHz)
Memory	2GB	2GB	4GB	8GB	6GB	8GB
Maximum firewall users	80	300	800	2,200	3,500	5,000
Maximum mail users	70	275	750	2,000	3,300	4,500
Maximum web users	40	140	330	1,100	2,300	3,800
Maximum UTM users	35	70	200	800	1,300	2,500

Average users versus power users

All recommended user numbers are based on average email, web and firewall usage with parameters outlined within the table below. If usage significantly exceeds traffic of an average user (i.e. is a "power user") then you should choose an appliance with higher capacity according to the following rule:

- 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

	Average user	Power user
Email usage (per 10h working day)		
Number of received emails in inbox	Up to 50	>50
Number of large emails	Up to 3 emails ~ attachments 500KB	>3 emails and/or ~ attachments 1MB
Encrypted emails	Up to 10% of all emails	>10%
Web usage (per 10h working day)		
Downloads per user and day	Up to 4	>4
Web usage	Equally spread throughout the day	Many peaks
Web applications	Mostly webmail / Google / news	"Power Users" (schools, universities, business applications)
Active Directory in use	No	Yes
FW/VPN usage		
IPS in use	No	Yes
Number of VPN tunnels per user	up to 0.5	>0.5
Reporting		
Web Reporting	Up to 30 days (Domains only)	>30 days (per URL)
Accounting	No	Yes

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