



Feature	PA-5060 	PA-5050 	PA-5020 
<h2>Performance</h2> <p><i>*Performance and capacities are measured under ideal testing conditions using PAN-OS 7.1</i></p>			
App-ID firewall throughput	20 Gbps	10 Gbps	5 Gbps
Threat prevention throughput	10 Gbps	5 Gbps	2 Gbps
IPSec VPN throughput	4 Gbps	4 Gbps	2 Gbps
Connections per second	120,000	120,000	120,000
<h2>Sessions</h2>			
Max sessions (IPv4 or IPv6)	4,000,000	2,000,000	1,000,000
<h2>Policies</h2>			
Security rules	40,000	20,000	10,000
Security rule schedules	256	256	256
NAT rules	16,000	8,000	6,000
Decryption rules	5,000	2,000	1,000
App override rules	4,000	2,000	1,000
QoS rules	4,000	2,000	1,000
Policy based forwarding rules	2,000	2,000	500
Captive portal rules	4,000	2,000	1,000
DoS protection rules	2,000	1,000	1,000
<h2>Security Zones</h2>			
Max security zones	900	500	80
<h2>Objects (addresses and services)</h2>			
Address objects	80,000	40,000	10,000
Address groups	4,000	2,500	1,000
Members per address group	2,500	2,500	2,500
Service objects	4,000	2,000	2,000
Service groups	250	250	250
Members per service group	500	500	500
FQDN address objects	1,000	1,000	1,000
Max IP addresses registered per system	100,000	50,000	25,000

<i>*Applies to IP addresses registered to dynamic address groups</i>			
Tags per IP address	32	32	32
Security Profiles			
Security profiles	750	750	750
App-ID			
Custom App-ID signatures	6,000	6,000	6,000
Shared custom App-ID signatures	512	512	512
Custom App-IDs (virtual system specific)	6,416	6,416	6,416
User-ID			
User-IP mappings (management plane)	512,000	512,000	512,000
User-IP mappings (data plane)	256,000	128,000	128,000
Active and unique groups used in policy	640	640	640
Number of agents	100	100	100
Monitored servers per agent	100	100	100
Maximum terminal services agents	1,000	1,000	1,000
SSL Decryption			
Max SSL inbound certificates	1,000	300	100
SSL certificate cache (forward proxy)	1,024	1,024	1,024
Max concurrent decryption sessions	90,112	47,616	15,872
URL Filtering			
Total entries for allow list, block list and custom categories	100,000	50,000	25,000
Max custom categories	2,849	2,849	2,849
Max custom categories (virtual system specific)	500	500	500
Dataplane cache size for URL filtering	100,000	100,000	40,000
Management plane dynamic cache size	1,000,000	1,000,000	1,000,000
Interfaces			
Mgmt - out-of-band	10/100/ 1000, RJ45 console	10/100/ 1000, RJ45 console	10/100/ 1000, RJ45 console
Mgmt - 10/100/1000 high availability	2	2	2
Mgmt - 40Gbps high availability	NA	NA	NA
Traffic - 10/100/1000	12	12	12

Traffic - 1Gbps SFP	8	8	8
Traffic - 10Gbps SFP+	4	4	NA
Traffic - 10Gbps XFP	NA	NA	NA
Traffic - 40Gbps QSFP	NA	NA	NA
802.1q tags per device	4,094	4,094	4,094
802.1q tags per physical interface	4,094	4,094	4,094
Max interfaces (logical and physical)	4,096	4,096	2,048
Maximum aggregate interfaces	8	8	8

Virtual Routers

Virtual routers	225	125	20
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Virtual Wires

Virtual wires	2,048	2,048	1,024
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Virtual Systems

Base virtual systems	25	25	10
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Max virtual systems	225	125	20
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**Additional licenses are required for virtual system capacities above the base virtual systems capacity*

Routing

IPv4 forwarding table size	32,000	32,000	32,000
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**Entries shared across virtual routers*

IPv6 forwarding table size	32,000	32,000	32,000
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**Entries shared across virtual routers*

Max route maps per virtual router	50	50	50
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Max routing peers (protocol dependent)	500	500	500
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Static entries - DNS proxy	1,024	1,024	1,024
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L2 Forwarding

ARP table size per device	32,000	32,000	20,000
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IPv6 neighbor table size	32,000	32,000	20,000
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MAC table size per device	32,000	32,000	20,000
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Max ARP entries per broadcast domain	32,000	32,000	20,000
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Max MAC entries per broadcast domain	32,000	32,000	20,000
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NAT

Total NAT rule capacity	16,000	8,000	6,000
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Max NAT rules (static)	16,000	8,000	6,000
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<i>*Configuring static NAT rules to full capacity requires that no other NAT rule types are used.</i>			
Max NAT rules (DIP) <i>*Configuring DIP NAT rules to full capacity requires that no other NAT rule types are used.</i>	16,000	8,000	4,000
Max NAT rules (DIPP)	4,000	2,000	800
Max translated IPs (DIP)	320,000	160,000	64,000
Max translated IPs (DIPP) <i>*DIPP translated IP capacity is proportional to the DIPP pool oversubscription value. The capacity shown here is based on an oversubscription value of 1x.</i>	4,000	2,000	800
Default DIPP pool oversubscription <i>*Source IP and source port reuse across concurrent sessions</i>	8	8	4

Address Assignment

DHCP servers	225	125	20
Max number of assigned addresses	64,000	64,000	64,000

High Availability

Devices per cluster	2	2	2
Max virtual addresses	1,024	1,024	128

QoS

Number of QoS policies	4,000	2,000	1,000
Physical interfaces supporting QoS	12	12	12
Clear text nodes per physical interface	64	64	64
DSCP marking by policy	Yes	Yes	Yes
Subinterfaces supported	NA	NA	NA

IPSec VPN

Site to site	8,000	4,000	2,000
Max IKE Peers	1,000	1,000	1,000

GlobalProtect Client VPN

Max tunnels (SSL, IPSec, and IKE with XAUTH)	20,000	10,000	5,000
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Multicast

Replication (egress interfaces)	100	100	100
Routes	4,000	4,000	4,000

Product Notes

End-of-sale	NA	NA	NA
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