




Feature	PA-440 	PA-410 	PA-220 
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Performance

*1. Firewall throughput measured with App-ID and User-ID features enabled utilizing AppMix transactions. 2. Threat prevention throughput measured with App-ID, User-ID, IPS, antivirus and anti-spyware features enabled utilizing AppMix transactions. 3. New sessions per second measured with 1 byte HTTP transactions. Additionally, for VM models, please refer to hypervisor, cloud specific data sheet for associated performance.

App-ID firewall throughput	2.4 Gbps	1.3 Gbps	560 Mbps
Threat prevention throughput	1.0 Gbps	700 Mbps	300 Mbps
IPSec VPN throughput	1.6 Gbps	0.93 Gbps	570 Mbps
Connections per second	39,000	13,000	4,200

Sessions

Max sessions (IPv4 or IPv6)	200,000	64,000	64,000
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Policies

Security rules	2,000	500	500
Security rule schedules	256	256	256
NAT rules	3,000	400	400
Decryption rules	300	100	100
App override rules	300	100	100
Tunnel content inspection rules	300	100	100
SD-WAN rules	250	100	100
Policy based forwarding rules	300	100	100
Captive portal rules	300	10	500
DoS protection rules	300	100	100

Security Zones

Max security zones	50	25	15
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Objects (addresses and services)

Address objects	10,000	2,500	2,500
Address groups	250	125	250

Members per address group	2,500	2,500	2,500
Service objects	1,500	1,000	1,000
Service groups	500	250	250
Members per service group	500	500	500
FQDN address objects	2,000	2,000	2,000
Max DAG IP addresses <i>*System wide capacity</i>	50,000	1,000	1,000
Tags per IP address	64	64	32

Security Profiles

Security profiles	100	75	75
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App-ID

Custom App-ID signatures	6,000	6,000	6,000
Shared custom App-IDs	512	512	512
Custom App-IDs (virtual system specific)	6,416	6,416	6,416

User-ID

IP-User mappings (management plane)	512,000	512,000	524,288
IP-User mappings (data plane)	128,000	128,000	128,000
Active and unique groups used in policy <i>*Aggregate of LDAP groups, XML API Groups and Dynamic User Groups</i>	1,000	1,000	1,000
Number of User-ID agents	100	100	100
Monitored servers for User-ID	100	100	100
Terminal server agents	800	400	400
Tags per User <i>*Only valid for PAN-OS 9.1 and above</i>	64	64	32

SSL Decryption

Max SSL inbound certificates	75	25	25
SSL certificate cache (forward proxy)	1,000	TBD	128
Max concurrent decryption sessions	25,600	6,600	6,400
SSL Port Mirror	Yes	Yes	Yes
SSL Decryption Broker	No	No	No
HSM Supported	No	No	No

URL Filtering

Total entries for allow list, block list and custom categories	25,000	25,000	25,000
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Max custom categories	2,849	2,849	2,849
Max custom categories (virtual system specific)	500	500	500
Dataplane cache size for URL filtering	150,000	TBD	90,000
Management plane dynamic cache size	600,000	TBD	100,000

EDL

Max number of custom lists	30	30	30
Max number of IPs per system	50,000	50,000	50,000
Max number of DNS Domains per system	1,000,000	50,000	50,000
Max number of URL per system	100,000	50,000	50,000
Shortest check interval (min)	5	5	5

Interfaces

Mgmt - out-of-band	10/100/1000, RJ45/Micro USB console	10/100/1000, RJ45/Micro USB console	10/100/1000, RJ45/Micro USB console
Mgmt - 10/100/1000 high availability	NA	NA	NA
Mgmt - 40Gbps high availability	NA	NA	null
Mgmt - 10Gbps high availability	NA	NA	NA
Traffic - 10/100/1000	8	7	8
Traffic - 100/1000/10000	NA	NA	NA
Traffic - 1Gbps SFP	NA	NA	NA
Traffic - 10Gbps SFP+	NA	NA	NA
Traffic - 40/100Gbps QSFP+/QSFP28	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)	3,000	1,024	1,024
Maximum aggregate interfaces	4	3	4
Maximum SD-WAN virtual interfaces	840	300	300

Virtual Routers

Virtual routers	3	3	3
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Virtual Wires

Virtual wires	512	512	256
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Virtual Systems

Base virtual systems	1	1	1
Max virtual systems	NA	NA	NA

**Additional licenses are required for virtual system capacities above the base virtual systems capacity*

Routing

IPv4 forwarding table size <i>*Entries shared across virtual routers</i>	5,000	5,000	10,000
IPv6 forwarding table size <i>*Entries shared across virtual routers</i>	5,000	2,500	2,500
System total forwarding table size	5,000	5,000	10,000
32,000	null	null	50
Max routing peers (protocol dependent)	1,000	500	500
Static entries - DNS proxy	1,024	1,024	1,024
Bidirectional Forwarding Detection (BFD) Sessions	Yes	Yes	NA

L2 Forwarding

ARP table size per device	3,000	1,500	1,500
IPv6 neighbor table size	3,000	1,500	1,500
MAC table size per device	3,000	1,500	1,500
Max ARP entries per broadcast domain	3,000	1,500	1,500
Max MAC entries per broadcast domain	3,000	1,500	1,500

NAT

Total NAT rule capacity	3,000	400	400
Max NAT rules (static) <i>*Configuring static NAT rules to full capacity requires that no other NAT rule types are used.</i>	3,000	400	400
Max NAT rules (DIP) <i>*Configuring DIP NAT rules to full capacity requires that no other NAT rule types are used.</i>	2,000	400	400
Max NAT rules (DIPP)	1,000	200	200
Max translated IPs (DIP)	128,000	16,000	16,000
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>	1,000	200	200
Default DIPP pool oversubscription <i>*Source IP and source port reuse across concurrent sessions</i>	2	2	2

Address Assignment

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DHCP servers	5	3	3
DHCP relays	500	500	500
<i>*Maximum capacity represents total DHCP servers and DHCP relays combined</i>			
Max number of assigned addresses	64,000	64,000	64,000
High Availability			
Devices supported	2	2	2
Max virtual addresses	48	32	32
QoS			
Number of QoS policies	1,000	1,000	100
Physical interfaces supporting QoS	8	8	8
Clear text nodes per physical interface	31	31	31
DSCP marking by policy	Yes	Yes	Yes
Subinterfaces supported	System Limit	System Limit	System Limit
IPSec VPN			
Max IKE Peers	2,800	1,000	1,000
Site to site (with proxy id)	2,800	1,000	1,000
SD-WAN IPSec tunnels	2,800	1,000	1,000
GlobalProtect Client VPN			
Max tunnels (SSL, IPSec, and IKE with XAUTH)	1,000	250	250
GlobalProtect Clientless VPN			
Max SSL tunnels	100	20	20
Multicast			
Replication (egress interfaces)	200	100	100
Routes	1,000	500	500
Product Notes			
End-of-sale	NA	NA	NA