Feature	PA-820	PA-500
Performance		
**Performance and capacities are measured under ideal testing conditions using PAN-OS .0. Additionally, for VM models please refer to hypervisor, cloud specific data sheet for associated performance*		
App-ID firewall throughput	940 Mbps	250 Mbps
Threat prevention throughput	610 Mbps	100 Mbps
IPSec VPN throughput	400 Mbps	50 Mbps
Connections per second	8,300	7,500
Sessions		
Max sessions (IPv4 or IPv6)	130,000	64,000
Policies		
Security rules	1,500	1,000
Security rule schedules	256	256
NAT rules	3,000	160
Decryption rules	100	100
App override rules	100	100
QoS rules	100	100
Tunnel content inspection rules	100	100
Policy based forwarding rules	100	100
Captive portal rules	100	100
DoS protection rules	100	100
Security Zones		
Max security zones	30	20
Objects (addresses and services)		
Address objects	2,500	2,500
Address groups	250	250
Members per address group	2,500	2,500
Service objects	1,000	1,000
Service groups	250	250

Members per service group	500	500
FQDN address objects	2,000	2,000
Max IP addresses registered per system **Applies to IP addresses registered to dynamic address groups*	1,000	1,000
Tags per IP address	32	32
Security Profiles		
Security profiles	100	75
App-ID		
Custom App-ID signatures	6,000	6,000
Shared custom App-IDs	512	512
Custom App-IDs (virtual system specific)	6,416	6,416
User-ID		
User-IP mappings (management plane)	512,000	512,000
User-IP mappings (data plane)	128,000	64,000
Active and unique groups used in policy	1,000	1,000
Number of agents	100	100
Monitored servers per agent	100	100
Maximum terminal services agents	400	400
SSL Decryption		
Max SSL inbound certificates	25	25
SSL certificate cache (forward proxy)	128	128
Max concurrent decryption sessions	12,800	1,024
URL Filtering		
Total entries for allow list, block list and custom categories	25,000	25,000
Max custom categories	2,849	2,849
Max custom categories (virtual system specific)	500	500
Dataplane cache size for URL filtering	10,000	10,000
Management plane dynamic cache size	1,000,000	1,000,000
Interfaces		
Mgmt - out-of-band	null	10/100/1000, RJ45 console
Mgmt - 10/100/1000 high availability	2	NA

Mgmt - 40Gbps high availability	NA	NA
Traffic - 10/100/1000	4	8
Traffic - 100/1000/10000	NA	NA
Traffic - 1Gbps SFP	8	NA
Traffic - 10Gbps SFP+	NA	NA
Traffic - 10Gbps XFP	NA	NA
Traffic - 40Gbps QSFP	NA	NA
802.1q tags per device	4,094	4,094
802.1q tags per physical interface	4,094	4,094
Max interfaces (logical and physical)	1,024	288
Maximum aggregate interfaces	6	4
Virtual Routers		
Virtual routers	5	3
Virtual Wires		
Virtual wires	512	144
Virtual Systems		
Base virtual systems	1	1
Max virtual systems **Additional licenses are required for virtual system capacities above the base virtual systems capacity*	NA	NA
Routing		
IPv4 forwarding table size **Entries shared across virtual routers*	5,000	625
IPv6 forwarding table size **Entries shared across virtual routers*	5,000	625
System total forwarding table size	10,000	1,250
Max route maps per virtual router	50	50
Max routing peers (protocol dependent)	1,000	500
Static entries - DNS proxy	1,024	1,024
Bidirectional Forwarding Detection (BFD) Sessions	NA	NA
L2 Forwarding		
ARP table size per device	3,000	2,000
IPv6 neighbor table size	3,000	2,000
MAC table size per device	3,000	2,000
Max ARP entries per broadcast domain	3,000	2,000

Max MAC entries per broadcast domain	3,000	2,000
NAT		
Total NAT rule capacity	3,000	160
Max NAT rules (static) **Configuring static NAT rules to full capacity requires that no other NAT rule types are used.*	3,000	160
Max NAT rules (DIP) **Configuring DIP NAT rules to full capacity requires that no other NAT rule types are used.*	3,000	160
Max NAT rules (DIPP)	3,000	160
Max translated IPs (DIP)	3,000	16,000
Max translated IPs (DIPP) **DIPP translated IP capacity is proportional to the DIPP pool oversubscription value. The capacity shown here is based on an oversubscription value of 1x.*	400	160
Default DIPP pool oversubscription **Source IP and source port reuse across concurrent sessions*	2	1
Address Assignment		
DHCP servers	5	3
Max number of assigned addresses	64,000	64,000
High Availability		
Devices per cluster	2	2
Max virtual addresses	48	32
QoS		
Number of QoS policies	250	100
Physical interfaces supporting QoS	12	6
Clear text nodes per physical interface	31	31
DSCP marking by policy	Yes	Yes
Subinterfaces supported	System Limit	System limit
IPSec VPN		
Site to site	2,000	250
Max IKE Peers	1,000	1,000
GlobalProtect Client VPN		
Max tunnels (SSL, IPSec, and IKE with XAUTH)	1,000	100

GlobalProtect Clientless VPN		
Max SSL tunnels	250	25
Multicast		
Replication (egress interfaces)	200	100
Routes	1,500	1,000
Product Notes		
End-of-sale	NA	NA