



CAPACITY-INFORMATION TECHNICAL NOTE

DefensePro X (v10.10.X.X)

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INTERNAL

MAXIMUM CONFIGURATION OBJECTS

The following tables detail the maximum values for the principal DefensePro X configuration objects.

Platform	XVA / X10 / X20	X40 / X80	X50 / X90	X100 / X110 / X200 / X220 / X380 / X400 / X800
Network policies	50	100	100	200
Network Groups (Classes)	1024	1024	1024	1024
Discrete IP addresses per network	256	256	256	256
Subnets per network	256	256	256	256
Application Port Groups	512	512	512	512
Blocklist and Allowlist rules	5,000	10,000	10,000	10,000
Blocklist and Allowlist entries	Software: 20,000	Software: 20,000	DME: 1024	DME: 64,000
User-configured signatures	1,000	1,000	1,000	1,000
Protected SSL Objects	1,024	1,024	1,024	1,024
SSL/TLS server certificates	1,024	1,024	1,024	1,024
Intermediate CA certificates	2,048	2,048	2,048	2,048

MAXIMUM CONFIGURATION PROFILES

The following table details the maximum number of different profiles for policy-based protections.

Platform	XVA / X10 / X20	X40 / X80	X50 / X90	X100 / X200	X110 / X220 / X380	X400 / X800
Anti-Scanning	50	100	100	200	200	200
BDoS	50	100	100	200	200	200
Connection Limit	50	100	100	200	200	200
Connection PPS	50	100	100	200	200	200
DNS Protection	50	100	100	200	200	200
ERT Active Attackers Feed	50	100	100	200	200	200
Geolocation	50	100	100	200	200	200
ASN Feed	50	100	100	200	200	200
TLS Reputation Feed	50	100	100	200	200	200
User Define Feed	50	100	100	200	200	200
HTTPS Flood Protection	50	100	100	200	200	200
Out-of-State Protection	50	100	100	200	200	200
Quantile DoS	50	100	100	200	200	200
Signature Protection	50	100	100	200	200	200
SYN Flood Protection	50	100	100	200	200	200
Encrypted Web DDoS	50	100	100	200	200	200
Traffic Filters profiles	50	100	100	200	200	200
Traffic Filter per Profile	15	15	15	15	15	15
Max Traffic Filter per Device	200	200	400	400	400	400

MAXIMUM PARAMETERS PER MODULE

The following tables detail the maximum capacity of various parameters.

Module	Item	XVA	X10 / X20	X40 / X80	X50 / X90	X100 / X110 / X200 / X220 / X380	X400 / X800
Session Table	Concurrent sessions	1,000,000 per DPE	3,000,000 (600,000 per DPE)	14,000,000 (1,000,000 per DPE)	7,000,000 (1,000,000 per DPE)	22,000,000 (1,000,000 per DPE)	54,000,000 (1,000,000 per DPE)
Anti-Scanning	Concurrent attacks	1,000	1,000	1,000	1,000	1,000	1,000
	Tracked IP pairs	Sources: 250,000	Sources: 250,000	Sources: 250,000	Sources: 1,000,000	Sources: 1,000,000	Sources: 1,000,000
		Destinations: 200	Destinations: 200	Destinations: 200	Destinations: 200	Destinations: 200	Destinations: 200
	Suspended sources	Up to 32,000	Up to 32,000	Up to 32,000	Up to 64,000	Up to 64,000	Up to 64,000
BDoS	Concurrent attacks	50	50	50	50	50	50
Connection Limit	Suspended sources	Up to 32,000	Up to 32,000	Up to 32,000	Up to 64,000	Up to 64,000	Up to 64,000
	Tracked entries	Up to 192,000	Up to 192,000	Up to 192,000	Up to 768,000	Up to 768,000	Up to 768,000
Connection PPS	Concurrent attacks	2,500	2,500	5,000	5,000	10,000	10,000
	Tracked sessions	1,000,000 per DPE	3,000,000 (600,000 per DPE)	14,000,000 (1,000,000 per DPE)	7,000,000 (1,000,000 per DPE)	22,000,000 (1,000,000 per DPE)	54,000,000 (1,000,000 per DPE)
DNS Protection	Concurrent attacks	50	50	50	50	50	50
	Subdomains Allowlist	15,000	15,000	15,000	15,000	15,000	15,000
	User defined Allowlist	15,000	15,000	15,000	15,000	15,000	15,000
DNS Protection > 10.6 requires	Concurrent attacks	50	50	50	50	50	50
	Max Learned Allowlist	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
	User defined Allowlist	3,000,000	3,000,000	3,000,000	5,000,000	5,000,000	5,000,000
SYN Protection	Concurrent attacks	256	256	256	256	256	256
	Concurrent Report only attacks	1,000	1,000	1,000	1,000	1,000	1,000

	Tracked destination IP addresses and ports	40,000 per DPE	40,000 per DPE	40,000 per DPE	40,000 per DPE	40,000 per DPE	40,000 per DPE
	Delayed Binding Table	1,000,000 per DPE	600,000 per DPE	1,000,000 per DPE	1,000,000 per DPE	1,000,000 per DPE	1,000,000 per DPE
	Requests Table (ACK/Data)	100,000 per DPE	100,000 per DPE	100,000 per DPE	100,000 per DPE	100,000 per DPE	100,000 per DPE
	TCP Authentication Table (sources)	2,000,000 per DPE	2,000,000 per DPE	2,000,000 per DPE	16,777,216 Total	4,096,000 Total	8,192,000 Total
	HTTP Authentication Table (sources)	2,000,000 per DPE	2,000,000 per DPE	2,000,000 per DPE	16,000,000 Total	8,000,000 Total	2,000,000 per DPE
Signature Protection	Custom signatures	1,000	1,000	1,000	1,000	1,000	1,000
DoS Shield	Maximum concurrent active DoS Shield protections	10,000	10,000	10,000	10,000	10,000	10,000
Tracking Table	Used by:	Up to 192,000	Up to 192,000	Up to 192,000	Up to 768,000	Up to 768,000	Up to 768,000
	Connection Limit						
	Traffic Filters						
	Signature Protection						
	SYN protection						
Suspend Table	Used By:	32,000	32,000	64,000	64,000	64,000	64,000
	App Sec						
	Connection limit						
	Anti Scan						
	Traffic filter						
	SYN Protection						
User Define feed	IPv4 maximum list entries	1M	1M	1.5M	1.5M	2M	2M
	IPv6 maximum list entries	100K	100K	150K	150K	200K	200K

ERT Active Attacker Feed		2M	2M	2M	2M	2M	2M
Geo Feed	Supported MaxMind DB size						
ASN Protection Feed	Up to 100 ASNs per policy	Supported MaxMind DB size	Currently Not Supported	Supported MaxMind DB size			
TLS FP Reputation Feed	Up to 1000 FP values per policy	50,000	50,000	100,000	100,000	200,000	200,000
Web DDoS Protection	Behavioral - Learned TLS Real Time Signatures	50,000	50,000	100,000	200,000	400,000	400,000
	Web DDoS Manual Filters – By TLS Fingerprints	10,000	10,000	10,000	10,000	10,000	10,000

TUNNELING SUPPORT

The number of supported tunnels refers to the number of simultaneous or nested tunnels that are supported

Module	XVA	X10 / X20	X40 / X80	X50 / X90	X110 / X220 / X380	X100 / X200	X400 / X800
IP Data Routing table capacity	750	750	750	N/A	750	750	750
GRE versions	N/A	N/A	N/A	N/A	N/A	Version 0, 1	N/A
GRE tunnels capacity	N/A	N/A	N/A	N/A	N/A	1,000	N/A
MPLS tunnels layers	3	3	3	4	3	3	3
L2TP	Supported	Supported	Supported	N/A	N/A	Supported	N/A
GTP	Supported	Supported	Supported	Supported	Supported	Supported	Supported
VLAN tags layers	2	2	3	4	3	3	3
IP in IP	Supported	Supported	Supported	Supported	Supported	Supported	Supported
IPsec (default: bypass)	Supported	Supported	Supported	Supported	Supported	Supported	Supported

MAXIMUM USERS AND REPORTING DESTINATIONS

Platform	DefensePro Software Versions 10.x
Total number of configured users	50
Cyber Controller X simultaneous users	10
SNMPv3 users	Unlimited
Telnet/SSH simultaneous sessions	5
Console users	1
Syslog target addresses	5
SNMP target addresses	10
SNMP simultaneous commands execution	1
Packet reporting destinations	5

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