



FortiGate[®] Maximum Values Matrix

Technical Note



FortiGate Maximum Values Matrix

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Introduction

This document lists unit limits and per virtual domain (VDOM) limits. The unit limit is the maximum number allowed when the unit is operating without VDOMs. When VDOMs are enabled, the unit limit is the limit for all VDOMs combined, and the VDOM limit is the maximum number allowed per VDOM.

If a unit limit exists, it is not divided evenly among the VDOMs present on the FortiGate unit. Each VDOM can take advantage of its own limit until the combined number in all of the VDOMs reaches the unit limit. If the unit limit is met, no more instances can be created in any VDOM.

For example, the FortiGate-80C address groups have a unit limit of 5000 and a VDOM limit of 4000. If VDOMs are disabled, you can create 5000 address groups. The VDOM limit doesn't affect the FortiGate unit when VDOMs are disabled.

If VDOMs are enabled, you can 4000 address groups per VDOM, but the unit maximum prevents you from creating more than 5000 in total, across all the VDOMs. If you configure three VDOMs and create 3000 address groups in one VDOM, 2000 address groups in another VDOM, you will not be able to create any address groups in the remaining VDOM. The number of address groups in this example have not approached the maximum allowed per VDOM, but creating one more address group in any of the three VDOMs will exceed the unit maximum, and is therefore not permitted.

Table 1: Address groups in example VDOMs

Root VDOM	3000 address groups
VDOM 1	2000 address groups
VDOM 2	0 address groups
	5000 address groups in total

For information about global and per-VDOM features, see the Virtual Domain chapter in the [FortiOS Handbook](#).

Transparent mode interfaces

Any virtual domain can have a maximum of 255 interfaces in transparent mode. This includes VLANs, other virtual interfaces, and physical interfaces. NAT/Route mode supports from 255 to 8192 depending on the FortiGate model. This total number of interfaces includes VLANs, other virtual interfaces, and physical interfaces.

For information about global and per-VDOM features, see the System Administration chapter in the [FortiOS Handbook](#).

FortiGate maximum values (desktop models)

FortiGate Model		30B	All 50 models	All 60 models	All 80 models	100A
Feature						
System						
Interface	NAT mode: Interfaces (VLAN + physical) per VDOM	3 ^A	256			
	Transparent mode: Interfaces (VLAN + physical) per VDOM	3 ^A	255			
	Secondary IP addresses per interface	32				
	IPv6 prefix lists per interface	32				
IPv6 tunnels		4				
SIT tunnels per VDOM		4				
Zones		20				
Zone interfaces		See maximum values for system interfaces.				
DHCP	DHCP servers per VDOM	16				
	DHCP exclude ranges	4				
	<i>DHCP reserved addresses</i>	200				
SNMP v1&v2c	Communities	3				
	Community hosts	8				
Admin	Accounts	300				
	Access profiles	8				
Session-helper		32				
Session-TTL ports		512				
Mac Address table size		200				
VDOM link		VDOM links are interfaces. See maximum values for system interfaces.				
GRE tunnel		GRE tunnels are interfaces. See maximum values for system interfaces.				
ARP table size		2000				
ARP table size per VDOM		200				
ARP proxy		200				
TOS-based priority		16				
Router (NAT mode)						
Static	Static routes	100				
Static6	Static routes for IPv6	8				
Policy	Policy routes	16				
Access-list	Entries	n/a	32			
	Rules per entry	n/a	20			
Prefix-list	Entries	n/a	32			
	Rules per entry	n/a	64			
Key-chain	Entries	n/a	16			
	Rules per entry	n/a	20			
BGP	Confederation- peers	n/a	No set limit			
	Aggregate-addresses	n/a	No set limit			
	Neighbors	n/a	1000			
	Networks	n/a	No set limit			
Redistribution tables per VDOM		n/a	100			
<i>Authentication paths</i>		No set limit				

FortiGate Model		30B	All 50 models	All 60 models	All 80 models	100A
Feature						
RIP	Networks	n/a	100			
	Distribute lists	n/a	100			
	Neighbors	n/a	100			
	Offset lists	n/a	32			
	Distances	n/a	100			
	Passive interfaces	n/a	256			
	Interfaces	n/a	32			
	Redistribution tables per VDOM	n/a	100			
OSPF	Areas	n/a	No set limit			
	Range of areas	n/a	No set limit			
	Virtual links	n/a	No set limit			
	Filter lists	n/a	No set limit			
	Interfaces	n/a	See maximum values for system interfaces.			
	Networks	n/a	No set limit			
	Neighbors	n/a	10			
	Passive interfaces	n/a	No set limit			
	Redistribution tables per VDOM	n/a	100			
Route	Map	n/a	100			
	Map rule	n/a	20			
Firewall						
Policies	VDOM	200	500	4000	1000	
	Unit	No set limit			5000	No limit
	User groups per identity-based policy	100				
Policy pool names		64				
IPv6 policies	VDOM	200	500	4000	1000	
	Unit	No set limit			5000	No limit
Multicast policies		32				
DNS translations		32				
Load balancing monitor	VDOM	n/a	256			
	Unit	n/a	No set limit			
Addresses	VDOM	500				
	Unit	No set limit				
IPv6 addresses	VDOM	500				
	Unit	No set limit				
Address group	Groups/VDOM	500				
	Groups/Unit	2500				
	Addresses per group	300				
IPv6 address group	Groups/VDOM	500				
	Groups/Unit	2500				
Service	Predefined services	500				
	Custom services	1024				
Service group	Groups	500				
	Services per group	300				

FortiGate Model		30B	All 50 models	All 60 models	All 80 models	100A
Feature						
Schedules	One-time				256	
	Recurring				256	
Virtual IP	Virtual IPs				500	
	VIP groups				500	
	Addresses per VIP group				500	
Load Balance	Virtual servers	n/a				1 ^B
	Real servers per Virtual server	n/a				3
Protocol options					32	
Profile groups per VDOM					32	
IP pools					512	
Static IP/Mac bindings					256	
Traffic Shapers		n/a				32
Per-IP traffic shaper					32	
UTM						
AntiVirus	Antivirus profiles				32	
	File patterns for auto-submission to Fortinet				20	
	File pattern lists				10	
	File pattern list entries per VDOM				20000	32000
Intrusion Protection	IPS sensors				32	
	DoS sensors				32	
	Custom IPS signatures				256	
Web Filter	Web Filter profiles				32	
	Web content lists				10	
	Web content list entries per VDOM				20000	32000
	URL filter lists				10	
	URL filter list entries per VDOM				20000	32000
	Regex URL filter entries per VDOM	100			1000	4000
	FortiGuard local categories per VDOM				52	
	FortiGuard local ratings per VDOM	1000			2000	12000
	FortiGuard admin overrides per VDOM	10			50	200
FortiGuard user overrides per VDOM	10			50	200	
AntiSpam	Email Filter profiles				32	
	Banned word lists				10	
	Banned word list entries per VDOM				20000	32000
	DNSBL lists				10	
	DNSBL list entries per VDOM				20000	32000
	Email black/white lists				10	
	Email black/white list entries per VDOM				20000	32000
	IP address black/white lists				10	
	IP address black/white list entries per VDOM				20000	32000
	Trusted IP address lists				10	
	Trusted IP address list per VDOM				20000	32000
	MIME header lists				10	
MIME header list entries per VDOM				20000	32000	

FortiGate Model		30B	All 50 models	All 60 models	All 80 models	100A
Feature						
Data Leak Prevention	Rules per VDOM	512			1000	16384
	Rules per unit	512			1000	32768
	Compound rules per VDOM	512			1000	16384
	Compound rules per unit	512			1000	32768
	Filters per sensor	512			1000	16384
	Sensors per VDOM	8				
	Sensors per unit	256				
	Sensitivity ratings per VDOM	128				
Application Control	Application Control Lists	32				
VPN						
Certificate	Local	200				
	CA	200				
	CRL	200				
IPSec	Phase1 per VDOM	5	20	50	200	80
	Phase1 per unit	5	20	50	200	80
	Phase1 interface	See maximum values for system interfaces.				
	Phase2 per VDOM	5	20	50	200	80
	Phase2 per unit	5	20	50	200	80
	Phase2 interface	See maximum values for system interfaces.				
	Manual-keys per VDOM	5	20	50		80
	Manual-keys per unit	5	20	50		80
	Manual-keys interface	See maximum values for system interfaces.				
	Concentrators	500				
Tunnels per concentrator	10	40	100		160	
User						
Local	Local users	20		500	1000	
Radius	Servers	10				
LDAP	Servers	10				
TACACS+	Servers	10				
FSSO	Servers	5				
FortiToken	Users	20		500	1000	
Windows AD	Active Directory groups per domain	256				
User Group	User groups	100				
	Members per user group	350				
	Directory Service groups	5				
	FortiGuard override profiles	32				
IM Users	AIM users	20	500		1000	
	ICQ users	20	500		1000	
	MSN users	20	500		1000	
	Yahoo users	20	500		1000	
WAN Optimization						
Note: WAN optimization is supported only on FortiGate models with internal storage.						
Rule	Rules	n/a	32			n/a
	SSL servers	n/a	32			n/a
Peer	Authentication groups	n/a	16			n/a
	Peers	n/a	32			n/a
Web Cache	Web cache exempt lists	n/a	256			n/a

FortiGate Model	30B	All 50 models	All 60 models	All 80 models	100A
Feature					
Wireless Controller					
SSID		16			
Managed Physical AP	n/a	5		16	
Assigned Virtual AP list for each Physical AP		16			
Logging					
Traffic filter rules		50			
Custom log fields per firewall policy		5			
Datasets	n/a	192			
Fields per dataset	n/a	32			
Charts	n/a	192			
Chart mapping	n/a	8			
Summary	n/a	16			
Style	n/a	128			
Theme	n/a	8			
Layout	n/a	16			
Body items per layout	n/a	256			
Headers per page, per report layout	n/a	2			
Footers per page, per report layout	n/a	2			

FortiGate maximum values (1U models)

FortiGate Model		110C and 111C	200A	224B	200B	300A	310B, 311B	400A	500A	620B	800 800F	
Feature												
System												
Interface	NAT mode: Interfaces (VLAN + physical) per VDOM	4096				8192	4096	8192				
	Transparent mode: Interfaces (VLAN + physical) per VDOM	255										
	Secondary IP addresses per interface	32										
	IPv6 prefix lists per interface	32										
IPv6 tunnels		4										
SIT tunnels per VDOM		4										
Zones		50				100			200	100		
Zone interfaces		See maximum values for system interfaces.										
DHCP	DHCP servers per VDOM	40										
	DHCP exclude ranges	16										
	<i>DHCP reserved addresses</i>	200										
SNMP v1&v2c	Communities	3										
	Community hosts	8										
Admin	Accounts	300										
	Access profiles	16										
Session-helper		32				256						
Session-TTL ports		512										
Mac Address table size		200										
VDOM link		VDOM links are interfaces. See maximum values for system interfaces.										
GRE tunnel		GRE tunnels are interfaces. See maximum values for system interfaces.										
ARP table size		2000				10240	2000		10240	2000		
ARP table size per VDOM		200				1024	200		1024	200		
ARP proxy		200										
TOS-based priority		16										
Router (NAT mode)												
Static	Static routes	500						10000		500		
Static6	Static routes for IPv6	500										
Policy	Policy routes	100				250	100		250			
Access-list	Entries	100										
	Rules per entry	256							512		256	
Prefix-list	Entries	100										
	Rules per entry	64										
Key-chain	Entries	16							100		16	
	Rules per entry	20										
BGP	Confederation- peers	No set limit										
	Aggregate-addresses	No set limit										
	Neighbors	1000										
	Networks	No set limit										
Redistribution tables per VDOM		100										
<i>Authentication paths</i>		No set limit										

FortiGate Model		110C and 111C	200A	224B	200B	300A	310B, 311B	400A	500A	620B	800 800F	
Feature												
RIP	Networks						100					
	Distribute lists						100					
	Neighbors						100					
	Offset lists						32					
	Distances						100					
	Passive interfaces						300					
	Interfaces						32					
	Redistribution tables per VDOM						100					
OSPF	Areas						No set limit					
	Range of areas						No set limit					
	Virtual links						No set limit					
	Filter lists						No set limit					
	Interfaces						See maximum values for system interfaces.					
	Networks						No set limit					
	Neighbors						10					
	Passive interfaces						No set limit					
	Summary addresses						10					
Route	Distribute lists						10					
	Redistribution tables per VDOM						100					
	Map						100					
	Map rule						20					
	Firewall											
	Policies	VDOM	5000	2000	8000	5000	20000	5000	20000	50000	20000	
		Unit	10000	4000	16000	10000	40000	10000	40000	100000	40000	
		User groups per identity-based policy	100									
	Policy pool names		64									
IPv6 policies	VDOM	2000			5000	20000	5000	20000	50000	20000		
	Unit	10000	4000	16000	10000	40000	10000	40000	100000	40000		
Multicast policies		64					128	64	128			
DNS translations		32	512					1024			512	
Load balancing monitor	VDOM	256										
	Unit	No set limit										
Addresses	VDOM	1000			3000	6000	3000	6000	10000	6000		
	Unit	No set limit			6000	12000	6000	12000	20000	12000		
IPv6 addresses	VDOM	1000			3000	6000	3000	6000	10000	6000		
	Unit	No set limit			6000	12000	6000	12000	20000	12000		
Address group	Groups/VDOM	500								4096	500	
	Groups/Unit	2500								10000	2500	
	Addresses per group	300										
IPv6 address group	Groups/VDOM	500								4096	500	
	Groups/Unit	2500								10000	2500	
Service	Predefined services						500					
	Custom services						1024					
Service group	Groups						500					
	Services per group						300					

FortiGate Model		110C and 111C	200A	224B	200B	300A	310B, 311B	400A	500A	620B	800 800F		
Schedules	One-time						256						
	Recurring						256						
Virtual IP	Virtual IPs						500						
	VIP groups						500						
	Addresses per VIP group						500						
Load Balance	Virtual servers	3						500					
	Real servers per Virtual server						8						
Protocol options							32			500			
Profile groups per VDOM							32		500	32	500		
IP pools		512	1024	512	1024				2048		1024		
Static IP/Mac bindings							1000						
Traffic Shapers							32		500	32	500		
Per-IP traffic shaper							32		500	32	500		
UTM													
AntiVirus	Antivirus profiles						32		500	32	500		
	File patterns for auto-submission to Fortinet						20						
	File pattern lists						10				1000		
	File pattern list entries per VDOM	32000			50000		32000		50000				
Intrusion Protection	IPS sensors						32						
	DoS sensors						32						
	Custom IPS signatures						256						
Web Filter	Web Filter profiles						32		500	32	500		
	Web content lists						10		1000	10	1000		
	Web content list entries per VDOM	32000			50000		32000		50000				
	URL filter lists						10		1000	10	1000		
	URL filter list entries per VDOM	32000	20000	32000		50000		32000		50000			
	Regex URL filter entries per VDOM	4000				10000		4000	10000				
	FortiGuard local categories per VDOM						52						
	FortiGuard local ratings per VDOM						12000						
	FortiGuard admin overrides per VDOM						200		400	200	400		
FortiGuard user overrides per VDOM						200		400	200	400			
AntiSpam	Email Filter profiles						32		500	32	500		
	Banned word lists						10		1000	10	1000		
	Banned word list entries per VDOM	32000			50000		32000		50000				
	DNSBL lists						10		1000	10	1000		
	DNSBL list entries per VDOM	32000			50000		32000		50000				
	Email black/white lists						10		1000	10	1000		
	Email black/white list entries per VDOM	32000			50000		32000		50000				
	IP address black/white lists						10		1000	10	1000		
	IP address black/white list entries per VDOM	32000			50000		32000		50000				
	Trusted IP address lists						10		1000	10	1000		
	Trusted IP address list per VDOM	32000			50000		32000		50000				
	MIME header lists						10		1000	10	1000		
	MIME header list entries per VDOM	32000			50000		32000		50000				

FortiGate Model		110C and 111C	200A	224B	200B	300A	310B, 311B	400A	500A	620B	800 800F
Data Leak Prevention	Rules per VDOM	16384									
	Rules per unit	32768									
	Compound rules per VDOM	16384									
	Compound rules per unit	32768									
	Filters per sensor	16384									
	Sensors per VDOM	8				25000		8		25000	
	Sensors per unit	256				50000		256		50000	
	Sensitivity ratings per VDOM	128									
Application Control	Application Control Lists	32									
VPN											
Certificate	Local	200				500					
	CA	200									
	CRL	200									
IPSec	Phase1 per VDOM	1500	200	2000	1500	3000		5000	3000		
	Phase1 per unit	1500	200	2000	3000	6000		10000	6000		
	Phase1 interface	See maximum values for system interfaces.									
	Phase2 per VDOM	1500	200	2000	1500	3000		5000	3000		
	Phase2 per unit	1500	200	2000	3000	6000		10000	6000		
	Phase2 interface	See maximum values for system interfaces.									
	Manual-keys per VDOM	200		2000	1500	3000	1500	3000	5000	3000	
	Manual-keys per unit	200		2000	3000	6000	3000	6000	10000	6000	
	Manual-keys interface	See maximum values for system interfaces.									
	Concentrators	500									
Tunnels per concentrator	300										
User											
Local	Local users	1000									
Radius	Servers	10									
LDAP	Servers	10									
TACACS+	Servers	10									
FSSO	Servers	5									
FortiToken	Users	1000									
Windows AD	Active Directory groups per domain	256				1024					
User Group	User groups	100									
	Members per user group	350									
	Directory Service groups	5									
	FortiGuard override profiles	32									
IM Users	AIM users	1000									
	ICQ users	1000									
	MSN users	1000									
	Yahoo users	1000									
WAN Optimization											
Note: WAN optimization is supported only on FortiGate models with internal storage.											
Rule	Rules	64	n/a	64	n/a	128	n/a	128	n/a	128	n/a
	SSL servers	64	n/a	64	n/a	128	n/a	128	n/a	128	n/a
Peer	Authentication groups	32	n/a	32	n/a	64	n/a	64	n/a	64	n/a
	Peers	64	n/a	64	n/a	128	n/a	128	n/a	128	n/a
Web Cache	Web cache exempt lists	256	n/a	256	n/a	256	n/a	256	n/a	256	n/a

FortiGate Model	110C and 111C	200A	224B	200B	300A	310B, 311B	400A	500A	620B	800 800F
Wireless Controller										
SSID	16									
Managed Physical AP	32									
Assigned Virtual AP list for each Physical AP	16									
Logging										
Traffic filter rules	50									
Custom log fields per firewall policy	5									
Datasets	192									
Fields per dataset	32									
Charts	192									
Chart mapping	8									
Summary	16									
Style	128									
Theme	8									
Layout	16									
Body items per layout	256									
Headers per page, per report layout	2									
Footers per page, per report layout	2									

FortiGate maximum values (2U, 3U, blade models)

FortiGate Model		1000A 1000FA2	1240B	3600,3600A 3016B, 3810A ONE	3040B	3950B, 3951B	5000 Series
Feature							
System							
Interface	NAT mode: Interfaces (VLAN + physical) per VDOM		8192				
	Transparent mode: Interfaces (VLAN + physical) per VDOM		255				
	Secondary IP addresses per interface		32				
	IPv6 prefix lists per interface		32				
IPv6 tunnels		4					
SIT tunnels per VDOM		4					
Zones		200					
Zone interfaces		See maximum values for system interfaces.					
DHCP	DHCP servers per VDOM		40				
	DHCP exclude ranges		16				
	DHCP reserved addresses		200				
SNMP v1&v2c	Communities		3				
	Community hosts		8				
Admin	Accounts		300				550
	Access profiles		64				
Session-helper		256					
Session-TTL ports		512					
Mac Address table size		200					
VDOM link		VDOM links are interfaces. See maximum values for system interfaces.					
GRE tunnel		GRE tunnels are interfaces. See maximum values for system interfaces.					
ARP table size		2000	81920				
ARP table size per VDOM		200	8192				
ARP proxy		200					
TOS-based priority		16					
Router (NAT mode)							
Static	Static routes		10000				
Static6	Static routes for IPv6		500				
Policy	Policy routes		250				
Access-list	Entries		100				
	Rules per entry		512				
Prefix-list	Entries		100				
	Rules per entry		64				
Key-chain	Entries		100				
	Rules per entry		20				
BGP	Confederation- peers		No set limit				
	Aggregate-addresses		No set limit				
	Neighbors		1000				
	Networks		No set limit				
Redistribution tables per VDOM		100					
Authentication paths		No set limit					

Feature		FortiGate Model						
		1000A 1000FA2	1240B	3600,3600A 3016B, 3810A ONE	3040B	3950B, 3951B	5000 Series	
RIP	Networks	100						
	Distribute lists	100						
	Neighbors	100						
	Offset lists	32						
	Distances	100						
	Passive interfaces	300						
	Interfaces	32						
	Redistribution tables per VDOM	100						
OSPF	Areas	No set limit						
	Range of areas	No set limit						
	Virtual links	No set limit						
	Filter lists	No set limit						
	Interfaces	See maximum values for system interfaces.						
	Networks	No set limit						
	Neighbors	10						
	Passive interfaces	No set limit						
	Summary addresses	10						
Route	Distribute lists	10						
	Redistribution tables per VDOM	100						
	Map	100						
	Map rule	20						
Firewall								
Policies	VDOM	50000						
	Unit	100000						
	User groups per identity-based policy	100	500					
Policy pool names		64						
IPv6 policies	VDOM	50000						
	Unit	100000						
Multicast policies		128						
DNS translations		512						
Load balancing monitor	VDOM	256	512					
	Unit	No set limit						
Addresses	VDOM	10000						
	Unit	20000						
IPv6 addresses	VDOM	10000						
	Unit	20000						
Address group	Groups/VDOM	4096						
	Groups/Unit	10000						
	Addresses per group	300	No limit			300		
IPv6 address group	Groups/VDOM	4096						
	Groups/Unit	10000						
Service	Predefined services	500						
	Custom services	1024	4096	1024	4096			
Service group	Groups	500						
	Services per group	300						

FortiGate Model		1000A 1000FA2	1240B	3600,3600A 3016B, 3810A ONE	3040B	3950B, 3951B	5000 Series
Schedules	One-time	256					
	Recurring	256					
Virtual IP	Virtual IPs	8196 ^C	10000	10000	10000	10000	10000 ^D
	VIP groups	500					
	Addresses per VIP group	500	1024				
Load Balance	Virtual servers	8196 ^C	10000				10000 ^E
	Real servers per Virtual server	16					32
Protocol options		500					
Profile groups per VDOM		500					
IP pools		1024	4096	2048	4096		
Static IP/Mac bindings		1000					
Traffic Shapers		500					
Per-IP traffic shaper		500					
UTM							
AntiVirus	Antivirus profiles	500					
	File patterns for auto-submission to Fortinet	20					
	File pattern lists	1000	2000				
	File pattern list entries per VDOM	50000	250000				
Intrusion Protection	IPS sensors	32					
	DoS sensors	32					
	Custom IPS signatures	256					
Web Filter	Web Filter profiles	500					
	Web content lists	1000	2000				
	Web content list entries per VDOM	50000	250000				
	URL filter lists	1000	2000				
	URL filter list entries per VDOM	50000	250000				
	Regex URL filter entries per VDOM	10000					
	FortiGuard local categories per VDOM	52					
	FortiGuard local ratings per VDOM	12000					
	FortiGuard admin overrides per VDOM	400				500	
AntiSpam	Email Filter profiles	500					
	Banned word lists	1000	2000				
	Banned word list entries per VDOM	50000	250000				
	DNSBL lists	1000	2000				
	DNSBL list entries per VDOM	50000	250000				
	Email black/white lists	1000	2000				
	Email black/white list entries per VDOM	50000	250000				
	IP address black/white lists	1000	2000				
	IP address black/white list entries per VDOM	50000	250000				
	Trusted IP address lists	1000	2000				
	Trusted IP address list per VDOM	50000	250000				
	MIME header lists	1000	2000				
	MIME header list entries per VDOM	50000	250000				

FortiGate Model		1000A 1000FA2	1240B	3600,3600A 3016B, 3810A ONE	3040B	3950B, 3951B	5000 Series
Data Leak Prevention	Rules per VDOM	16384					
	Rules per unit	32768					
	Compound rules per VDOM	16384					
	Compound rules per unit	32768					
	Filters per sensor	16384					
	Sensors per VDOM	25000	32000				
	Sensors per unit	50000	64000				
	Sensitivity ratings per VDOM	128					
Application Control	Application Control Lists	32					
VPN							
Certificate	Local	500	1000				
	CA	200					
	CRL	200					
IPSec	Phase1 per VDOM	5000					
	Phase1 per unit	10000					
	Phase1 interface	See maximum values for system interfaces.					
	Phase2 per VDOM	5000					
	Phase2 per unit	10000					
	Phase2 interface	See maximum values for system interfaces.					
	Manual-keys per VDOM	5000					
	Manual-keys per unit	10000					
	Manual-keys interface	See maximum values for system interfaces.					
	Concentrators	500					
Tunnels per concentrator	300						
User							
Local	Local users	1000	5000				
Radius	Servers	10					
LDAP	Servers	10					
TACACS+	Servers	10					
FSSO	Servers	5					
FortiToken	Users	1000	5000	5000	1000	5000	5000
Windows AD	Active Directory groups per domain	1024					
User Group	User groups	100					
	Members per user group	350					
	Directory Service groups	5					
	FortiGuard override profiles	32					
IM Users	AIM users	1000					
	ICQ users	1000					
	MSN users	1000					
	Yahoo users	1000					
WAN Optimization							
Note: WAN optimization is supported only on FortiGate models with internal storage.							
Rule	Rules	n/a	256				
	SSL servers	n/a	256				
Peer	Authentication groups	n/a	128				
	Peers	n/a	256				
Web Cache	Web cache exempt lists	n/a	256				

FortiGate Model	1000A 1000FA2	1240B	3600,3600A 3016B, 3810A ONE	3040B	3950B, 3951B	5000 Series
Feature						
Wireless Controller						
SSID	16					
Managed Physical AP	256	512	1024			
Assigned Virtual AP list for each Physical AP	16					
Logging						
Traffic filter rules	50					
Custom log fields per firewall policy	5					
Datasets	192	192	256			
Fields per dataset	32					
Charts	192	192	256			
Chart mapping	8					
Summary	16	16	32			
Style	128	128	256			
Theme	8	8	16			
Layout	16	16	32			
Body items per layout	256					
Headers per page, per report layout	2					
Footers per page, per report layout	2					

Notes:

^AThe 30-series do not have VLAN or VDOM support. Only the physical interfaces are available.

^BFortiGate-82C value = 3

^CFortiGate-1000A value = 500

^DFortiGate-5001 and 5001FA2 value = 4096

^EFortiGate-5001FA2 value = 4096

Revision history

Version	Date	Description of changes
First Release	23 October 2003	FortiOS v2.50
Release 2	9 March 2004	Updated the DHCP address scopes and DHCP reserved IP/MAC pairs maximum values. Added FortiGate-800, FortiGate-4000, FortiGate-50A, and FortiWiFi-60. Updated Web filter and email filter maximum values. FortiOS v2.50
Release 3	5 May 2004	Complete change for FortiOS v2.80
Release 4	17 August 2004	Updated maximum numbers of Virtual Domains for NAT/Route and Transparent mode. Clarified Spam Filter limits. Removed model 2000. FortiOS v2.80 MR4
Release 5	5 November 2004	Corrected max number of protection profiles to 200 for models 3000 and up.
Release 6	25 February 2005	Added 50AM, 60M, 100A, 200A, 300A, 400A, 500A models. Added statement the maximum values table shows maximum configurable values and is not a promise of performance.
Release 7	08 April 2005	Removed items that depend on memory availability, including Web Filter and Spam Filter lists. Removed "(per virtual domain)" indications and added the statement that limits are global for globally configured features, per-VDOM for features configured in each VDOM.
Release 8	12 May 2005	Corrected DHCP Servers entry. For models 200 and above, the maximum number of DHCP servers is 32 per VDOM, not 8. This is a long-standing error.
Release 9	4 October 2005	Updated, reformatted for FortiOS v3.0.
Release 10	26 October 2005	Changed number of interfaces for 100A to 64.
Release 11	28 April 2006	Added new features, updated limits for existing features where required. Added VDOM/global limits to features that can be configured per VDOM and globally. Note: The feature DHCP IP/MAC Bindings is now referred to as DHCP Reserved addresses .
Release 12	19 June 2006	Added new features for FortiOS v3.0 MR2 PD 19 June 2006.
Release 13	29 September 2006	Added/updated features for FortiOS v3.0 MR3 PD 29 September 2006.
Release 14	29 December 2006	Added/updated features for FortiOS v3.0 MR4 PD 29 December 2006.
Release 15	08 February 2007	Corrected value in Router (NAT mode), Static, Static routes.
Release 16	11 April 2007	Corrected system interface values, divided into Transparent and NAT mode.
Release 17	15 June 2007	Added/updated features for FortiOS v3.0 MR5 PD 25 June 2007.
Release 18	15 January 2008	Added/updated features for FortiOS v3.0 MR6 FCS 15 January 2008. Included increased values for remote authentication servers, increase in local users and static routes, addition of TACACS+ users, SSL VPN bookmarks, load-balancing monitors, router authentication paths, and removal of IPS anomalies.
Release 19	15 May 2008	Added the FortiGate-310B.
Release 20	26 August 2008	Updated the values for 3.0MR7 and added the FortiGate-30B.

Version	Date	Description of changes
Release 21	4 March 2009	Updated the values for 4.0 and added the FortiGate-110B and the FortiGate-620B.
Release 22	15 April 2009	Added the FortiGate-3600, 50B, 51B, 110C and 111C models. Added maximum values for DLP, application control, identity-based policies, traffic shapers, endpoint control, transparent mode interface limit, antispam banned words, antispam DNSBL, antispam email black/white lists, antispam IP address black/white lists, antispam trusted IP lists, antispam MIME header lists, SIT tunnel, WAN opt authentication groups, WAN opt peers, WAN opt rules, WAN opt SSL servers, web filter content block, web filter exempt, web filter URL filter, FortiGuard web filtering local ratings, and FortiGuard web filtering overrides.
Release 23	22 May 2009	Corrected some FortiGate-30B values and added the virtual servers table.
Release 24	29 July 2009	Expanded the virtual servers and real servers per virtual server information to cover all models and moved it into the main table under Firewall.
Release 25	10 September 2009	Updated the values for 4.0MR1 and added the FortiWiFi-80CM, FortiGate-80CM, 80C, and 82C.
Release 26	3 November 2009	Updated to include FortiGate-1240B units running special build 3.0 MR7. This release is intended for only those FortiGate-1240B units running special build 3.0 MR7 and contains information that is supported for that build. For example, application control and DLP information is left blank because there is no application control or DLP feature in FortiOS 3.0 MR7.
Release 27	11 November 2009	Updated to include virtual servers and real servers per virtual server.
Release 28	12 November 2009	Revised numbers for virtual servers.
Release 29	17 November 2009	Added FortiGate-200B values.
Release 30	23 November 2009	Corrected numbers for virtual servers for 80 models and 110C and 111C models.
Release 31	2 February 2010	Added information for FortiGate-1240B and FortiGate-200B.
Release 32	13 April 2010	Added the FortiGate-ONE information. Updated to include 4.0 MR2 information.
Release 33	19 April 2010	Removed 200B from the column, 200A, 200B, 224B.
Release 34	22 April 2010	Corrected the number in the All 80 models column for Real servers per Virtual server.
Release 35	13 July 2010	Corrected the number in IP pool for the FortiGate-3000 series column.
Release 36	12 August 2010	Corrected the firewall policies number for FortiGate-200B. Updated information for wireless controller section and added directory service user groups.
Release 37	20 September 2010	Corrected the Managed Physical AP numbers for 30B and 50 series.
Release 38	8 November 2010	Corrected the IPsec VPN Phase 1 and Phase 2 maximum values, as well as the Manual Key value. Updated the introductory paragraph and where to go for additional virtual domain information.
Release 39	30 November 2010	Corrected the ARP table size information.
Release 40	16 December 2010	Added information for FortiGate-3040B, FortiGate-3950B and 3951B.

Version	Date	Description of changes
Release 41	4 February 2011	Expanded the introduction with transparent mode information and additional details about VDOMs. Moved revision history to the end of the document.
Release 42	17 March 2011	Updated to include 4.0 MR3 information. Divided the table into three parts for easier viewing. Virtual AP is now called SSID. Fortinet Server Authentication Extension (FSAE) is now called Fortinet Single Sign-On (FSSO). Added DLP filters per sensor, DLP fingerprinting sensitivity ratings per VDOM, FortiToken, FSSO, profile groups per VDOM.

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