



# FortiGate® Maximum Values

FortiOS 4.0 MR3



FortiGate® Maximum Values

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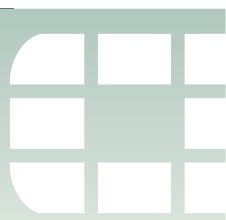
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## About this document

This FortiGate maximum values document lists the maximum number of configuration objects per FortiGate and FortiWiFi model that can be added to the configuration database for many FortiGate configuration settings.



The maximum values in this document are the maximum configurable values and are not a promise of performance.

### About per VDOM max values and per unit max values

In most cases the maximum number of configuration objects you can add to a FortiGate unit is the VDOM max value. If you have not enabled virtual domains on your FortiGate unit, it is essentially operating with one VDOM and the VDOM max value applies. So in most cases the max values listed in this document are actually VDOM max values. If virtual domains are not enabled, the VDOM max value functions as the max value for the unit.

If virtual domains are enabled on your FortiGate unit, most of the max values in this document are the max values for each VDOM. So, for FortiGate desktop models the firewall address max value is 500, so you can add up to 500 addresses per VDOM. This means if your FortiGate unit can have up to 10 VDOMs you can add a total of  $500 \times 10 = 5000$  addresses.

In some cases a per unit max value exists. The per unit max value is always higher than the per-VDOM max value but it is lower than  $(\text{VDOM max value}) \times (\text{number of VDOMs})$ . For example, for FortiGate desktop models the VDOM limit for firewall address groups is 500 and the unit limit is 2500. This means that you can add up to 500 address groups to any VDOM as long as the total number of address groups for all VDOMs does not exceed 2500.

You can distribute the per unit max value any way you want. For example, if you have 10 VDOMs you can divide the 2500 address groups evenly between each VDOM so each VDOM could have 250 address groups. Or you could add up to 500 address groups to some VDOMs and fewer address groups to others as long as the total for all VDOMs does not exceed 2500.

For information about global and per-VDOM features, see the Virtual Domains chapter in the *FortiOS Handbook*.

### About interface maximum values

For all FortiGate models, a virtual domain in transparent mode can have a maximum of 255 interfaces. This includes VLANs, other virtual interfaces, and physical interfaces.

Virtual domains in NAT/Route mode can have from 255 to 8192 interfaces depending on the FortiGate model. This total number of interfaces also includes VLANs, other virtual interfaces, and physical interfaces.



## FortiGate desktop models (20C to 100A)

FortiGate Model		All 20C and 30B models	All 50 models	All 40 and 60 models	All 80 models	100A
Feature						
System						
Interface	NAT mode: Interfaces (VLAN + physical) per VDOM	3 <sup>A</sup>	256			
	Transparent mode: Interfaces (VLAN + physical) per VDOM	3 <sup>A</sup>	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	
	DHCP reserved addresses				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 <sup>F</sup>					2000	
ARP table size per VDOM <sup>F</sup>					200	
ARP proxy					200	
TOS-based priority					16	
Replacement messages	Replacement message groups				200	
	Replacement message images				7	15
Router (NAT mode)						
Static	Static routes				100	
Static6	Static routes for IPv6				8	
Policy	Policy routes				16	

FortiGate Model		All 20C and 30B models	All 50 models	All 40 and 60 models	All 80 models	100A
Feature						
Access-list	Entries	N/A	32			
	Rules per entry	N/A	20 <sup>G</sup>	128		
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	N/A			
	Aggregate-addresses	N/A	N/A			
	Neighbors	N/A	1000			
	Networks	N/A	N/A			
	Redistribution tables per VDOM	N/A	100			
Authentication paths		N/A				
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	N/A			
	Range of areas	N/A	N/A			
	Virtual links	N/A	N/A			
	Filter lists	N/A	N/A			
	Interfaces	N/A	See maximum values for system interfaces.			
	Networks	N/A	N/A			
	Static neighbors	N/A	10			
	Passive interfaces	N/A	N/A			
	Summary addresses	N/A	10			
	Distribute lists	N/A	10			
	Redistribution tables per VDOM	N/A	100			
Route	Map	N/A	100			
	Map rules	N/A	20			



FortiGate Model		All 20C and 30B models	All 50 models	All 40 and 60 models	All 80 models	100A
Feature						
<b>Firewall</b>						
Policies	VDOM	200	500	4000	1000	
	Unit	N/A		5000	N/A	
	User groups per identity-based policy	100			500	
Policy pool names		64				
IPv6 policies	VDOM	200	500	4000	1000	
	Unit	N/A		5000	N/A	
Multicast policies		32				
DNS translations		32				
Load balancing monitor	VDOM	N/A	256			
	Unit	N/A	N/A			
Addresses	VDOM	500				
	Unit	N/A				
IPv6 addresses	VDOM	500				
	Unit	N/A				
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				
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 <sup>B</sup>			
	Real servers per Virtual server	N/A	3 <sup>H</sup>			
Protocol options		32				
Profile groups per VDOM		32				
IP pools per VDOM		512				
Static IP/Mac bindings		256				
Traffic Shapers		N/A	32			

FortiGate Model		All 20C and 30B models	All 50 models	All 40 and 60 models	All 80 models	100A
Feature						
Per-IP traffic shaper		32				
<b>UTM</b>						
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		

FortiGate Model		All 20C and 30B models	All 50 models	All 40 and 60 models	All 80 models	100A
Feature						
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 entries per VDOM	20000				32000
	MIME header lists	10				
	MIME header list entries per VDOM	20000				32000
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				
<b>VPN</b>						
Certificate	Local	200				
	CA	200				
	CRL	200				

FortiGate Model		All 20C and 30B models	All 50 models	All 40 and 60 models	All 80 models	100A
Feature						
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	
<b>User</b>						
Local	Local users	20	100	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				500
	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		
<b>WAN Optimization</b>						
<b>Note: WAN optimization is supported only on FortiGate models with internal storage.</b>						
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	All 20C and 30B models		All 50 models		All 40 and 60 models		All 80 models		100A	
Feature										
<b>Wireless Controller</b>										
SSID	16									
Managed Wireless Access Points	0	5			16					
Max Number of FortiAP Access Points Supported	0	5	5	16	16					
Assigned Virtual AP list for each Physical AP	16									
<b>Logging</b>										
Traffic filter rules	50									
Custom log fields per firewall policy	5									
Datasets	N/A	256								
Fields per dataset	N/A	32								
Charts	N/A	256								
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								

## FortiWiFi models (20C to 80)

All FortiWiFi maximum values are the same as the corresponding FortiGate model maximum values with the exception of the Wireless Controller values shown in the following table. See “[FortiGate desktop models \(20C to 100A\)](#)” on page 7 for other FortiWiFi maximum values.

FortiWiFi Models	All 20C and 30B models	All 50 models	All 40 and 60 models	All 80 models
<b>Wireless Controller</b>				
SSID	16			
Managed Wireless Access Points	1	5	16	
Max Number of FortiAP Access Points Supported	0	5	16	
Assigned Virtual AP list for each Physical AP	16			

## FortiGate 1U models (110C to 800C)

FortiGate Model		110C, 111C, 100D	200A	224B	200B	300A	300C, 310B, 311B	400A	500A	600C, 620B	800 800F	800C	
<b>System</b>													
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	500		
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											
	Access profiles	16							64	16	64		
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 <sup>F</sup>		2000				10240	2000	10240	2000	81920			
ARP table size per VDOM <sup>F</sup>		200				1024	200	1024	200	8192			
ARP proxy		200											
TOS-based priority		16											
Replacement messages	Replacement message groups	200											
	Replacement message images	15							30	15	30		
<b>Router (NAT mode)</b>													
Static	Static routes	500							10000	500	10000		
Static6	Static routes for IPv6	500											

FortiGate Model		110C, 111C, 100D	200A	224B	200B	300A	300C, 310B, 311B	400A	500A	600C, 620B	800 800F	800C
Policy	Policy routes	100					250	100		250		
Access-list	Entries	100										
	Rules per entry	256								512	256	512
Prefix-list	Entries	100										
	Rules per entry	64										
Key-chain	Entries	16								100	16	100
	Rules per entry	20										
BGP	Confederation- peers	N/A										
	Aggregate-addresses	N/A										
	Neighbors	1000								5000	1000	5000
	Networks	N/A										
	Redistribution tables per VDOM	100										
Authentication paths		N/A										
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	N/A										
	Range of areas	N/A										
	Virtual links	N/A										
	Filter lists	N/A										
	Interfaces	See maximum values for system interfaces.										
	Networks	N/A										
	Static neighbors	10										
	Passive interfaces	N/A										
	Summary addresses	10										
	Distribute lists	10										
	Redistribution tables per VDOM	100										
Route	Map	100										
	Map rule	20										



FortiGate Model		110C, 111C, 100D	200A	224B	200B	300A	300C, 310B, 311B	400A	500A	600C, 620B	800 800F	800C
<b>Firewall</b>												
Policies	VDOM	5000	2000	8000	5000	20000	5000	20000	50000	20000	50000	
	Unit	10000	4000	16000	10000	40000	10000	40000	100000	40000	100000	
	User groups per identity-based policy	500										800
Policy pool names		64										
IPv6 policies	VDOM	5000	2000	8000	5000	20000	5000	20000	50000	20000	50000	
	Unit	10000	4000	16000	10000	40000	10000	40000	100000	40000	100000	
Multicast policies		64					128	64	128		256	
DNS translations		32	512						1024	512	1024	
Load balancing monitor	VDOM	256										512
	Unit	N/A										
Addresses	VDOM	2000			3000	6000	3000	6000	10000	6000	10000	
	Unit	N/A			6000	12000	6000	12000	20000	12000	20000	
IPv6 addresses	VDOM	1000			3000	6000	3000	6000	10000	6000	10000	
	Unit	N/A			6000	12000	6000	12000	20000	12000	20000	
Address group	Groups/VDOM	500							4096	500	4096	
	Groups/Unit	2500							10000	2500	10000	
	Addresses per group	300										
IPv6 address group	Groups/VDOM	500							4096	500	4096	
	Groups/Unit	2500							10000	2500	10000	
Service	Predefined services	500										
	Custom services	1024										4096
Service group	Groups	500										
	Services per group	300										
Schedules	One-time	256										
	Recurring	256										
Virtual IP	Virtual IPs	500					2048	500	8196	500	10000	
	VIP groups	500										
	Addresses per VIP group	500										1024
Load Balance	Virtual servers	3	500									10000
	Real servers per Virtual server	8								16	8	16
Protocol options		32				500	32	500				
Profile groups per VDOM		32				500	32	500				
IP pools per VDOM		512	1024	512	1024				2048	1024		
Static IP/Mac bindings		1000										

FortiGate Model		110C, 111C, 100D	200A	224B	200B	300A	300C, 310B, 311B	400A	500A	600C, 620B	800 800F	800C
Traffic Shapers		32			500		32	500				
Per-IP traffic shaper		32			500		32	500				
<b>UTM</b>												
AntiVirus	Antivirus profiles	32			500		32	500				
	File patterns for auto-submission to Fortinet	20										
	File pattern lists	10			1000		10		1000		2000	
	File pattern list entries per VDOM	32000			50000		32000		50000		250000	
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		2000	
	Web content list entries per VDOM	32000			50000		32000		50000		250000	
	URL filter lists	10			1000		10		1000		2000	
	URL filter list entries per VDOM	32000	20000	32000	50000		32000		50000		250000	
	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				

FortiGate Model		110C, 111C, 100D	200A	224B	200B	300A	300C, 310B, 311B	400A	500A	600C, 620B	800 800F	800C	
AntiSpam	Email Filter profiles	32				500		32	500				
	Banned word lists	10				1000		10		1000		2000	
	Banned word list entries per VDOM	32000				50000		32000		50000		250000	
	DNSBL lists	10				1000		10		1000		2000	
	DNSBL list entries per VDOM	32000				50000		32000		50000		250000	
	Email black/white lists	10				1000		10		1000		2000	
	Email black/white list entries per VDOM	32000				50000		32000		50000		250000	
	IP address black/white lists	10				1000		10		1000		2000	
	IP address black/white list entries per VDOM	32000				50000		32000		50000		250000	
	Trusted IP address lists	10				1000		10		1000		2000	
	Trusted IP address list entries per VDOM	32000				50000		32000		50000		250000	
	MIME header lists	10				1000		10		1000		2000	
	MIME header list entries per VDOM	32000				50000		32000		50000		250000	
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		32000	
	Sensors per unit	256				50000		256		50000		64000	
Sensitivity ratings per VDOM	128												
Application Control	Application Control Lists	32											
<b>VPN</b>													
Certificate	Local	200				500				1000			
	CA	200											
	CRL	200											

FortiGate Model		110C, 111C, 100D	200A	224B	200B	300A	300C, 310B, 311B	400A	500A	600C, 620B	800 800F	800C
Feature												
IPSec	Phase1 per VDOM	1500	200		2000	1500		3000		5000	3000	5000
	Phase1 per unit	1500	200		2000	3000		6000		10000	6000	10000
	Phase1 interface	See maximum values for system interfaces.										
	Phase2 per VDOM	1500	200		2000	1500		3000		5000	3000	5000
	Phase2 per unit	1500	200		2000	3000		6000		10000	6000	10000
	Phase2 interface	See maximum values for system interfaces.										
	Manual-keys per VDOM		200		2000	1500	3000	1500	3000	5000	3000	5000
	Manual-keys per unit		200		2000	3000	6000	3000	6000	10000	6000	10000
	Manual-keys interface	See maximum values for system interfaces.										
	Concentrators	500										
	Tunnels per concentrator	300										
<b>User</b>												
Local	Local users	1000										5000
Radius	Servers	10										
LDAP	Servers	10										
TACACS+	Servers	10										
FSSO	Servers	5										
FortiToken	Users	1000										5000
Windows AD	Active Directory groups per domain	256					1024					
User Group	User groups	500										800
	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										
<b>WAN Optimization</b>												
<b>Note: WAN optimization is supported only on FortiGate models with internal storage.</b>												
Rule	Rules	64	N/A	64	N/A	128	N/A	128	N/A	256		
	SSL servers	64	N/A	64	N/A	128	N/A	128	N/A	256		
Peer	Authentication groups	32	N/A	32	N/A	64	N/A	64	N/A	128		
	Peers	64	N/A	64	N/A	128	N/A	128	N/A	256		
Web Cache	Web cache exempt lists	256	N/A	256	N/A	256	N/A	256	N/A	256		

FortiGate Model	110C, 111C, 100D	200A	224B	200B	300A	300C, 310B, 311B	400A	500A	600C, 620B	800 800F	800C
<b>Wireless Controller</b>											
SSID	16										
Managed Wireless Access Points	32			256		64		512		256 512	
Max Number of FortiAP Access Points Supported	32			256		64		512		256 512	
Assigned Virtual AP list for each Physical AP	16										
<b>Logging</b>											
Traffic filter rules	50										
Custom log fields per firewall policy	5										
Datasets	256							320		256	
Fields per dataset	32										
Charts	256							320		256	
Chart mapping	8										
Summary	16							32		16	
Style	128							256		128	
Theme	8							16		8	
Layout	16							32		16	
Body items per layout	256										
Headers per page, per report layout	2										
Footers per page, per report layout	2										



## FortiGate 2U, 3U, and blade models (1000A to 5000 series)

FortiGate Model		1000A 1000FA2	1000C, 1240B	3600,3600A 3016B, 3810A	3040B, 3140B, 3240C	3950B, 3951B	VM, VM64	5000 Series
<b>System</b>								
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	500					
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 <sup>F</sup>		2000	81920					
ARP table size per VDOM <sup>F</sup>		200	8192					
ARP proxy		200						
TOS-based priority		16						
Replacement messages	Replacement message groups	200						
	Replacement message images	30						
<b>Router (NAT mode)</b>								
Static	Static routes	10000						
Static6	Static routes for IPv6	500						
Policy	Policy routes	250						

FortiGate Model		FortiGate Model							
		1000A 1000FA2	1000C, 1240B	3600,3600A 3016B, 3810A	3040B, 3140B, 3240C	3950B, 3951B	VM, VM64	5000 Series	
Feature	Access-list	Entries	100						
		Rules per entry	256	512					
Prefix-list	Entries	100							
	Rules per entry	64							
Key-chain	Entries	100							
	Rules per entry	20							
BGP	Confederation- peers	N/A							
	Aggregate-addresses	N/A							
	Neighbors	5000							
	Networks	N/A							
	Redistribution tables per VDOM	100							
Authentication paths		N/A							
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	N/A							
	Range of areas	N/A							
	Virtual links	N/A							
	Filter lists	N/A							
	Interfaces	See maximum values for system interfaces.							
	Networks	N/A							
	Static neighbors	10							
	Passive interfaces	N/A							
	Summary addresses	10							
	Distribute lists	10							
	Redistribution tables per VDOM	100							
Route	Map	100							
	Map rule	20							



FortiGate Model		1000A 1000FA2	1000C, 1240B	3600, 3600A 3016B, 3810A	3040B, 3140B, 3240C	3950B, 3951B	VM, VM64	5000 Series
<b>Firewall</b>								
Policies	VDOM	50000						
	Unit	100000						
	User groups per identity-based policy	800						
Policy pool names		64						
IPv6 policies	VDOM	50000						
	Unit	100000						
Multicast policies		128	256					
DNS translations		512	1024					
Load balancing monitor	VDOM	256	512					
	Unit	N/A						
Addresses	VDOM	10000 <sup>J</sup>		40000		10000 <sup>K</sup>		
	Unit	20000 <sup>J</sup>		40000		20000 <sup>K</sup>		
IPv6 addresses	VDOM	10000						
	Unit	20000						
Address group	Groups/VDOM	4096						
	Groups/Unit	10000						
	Addresses per group	300 <sup>L</sup>			N/A		300 <sup>M</sup>	
IPv6 address group	Groups/VDOM	4096						
	Groups/Unit	10000						
Service	Predefined services	500						
	Custom services	1024	4096					
Service group	Groups	500 <sup>N</sup>		1000		500 <sup>P</sup>		
	Services per group	300						
Schedules	One-time	256						
	Recurring	256						
Virtual IP	Virtual IPs	8196 <sup>C</sup>	10000 <sup>Q</sup>			N/A		10000 <sup>D</sup>
	VIP groups	500						
	Addresses per VIP group	500	1024					
Load Balance	Virtual servers	8196 <sup>C</sup>	10000			N/A		10000 <sup>E</sup>
	Real servers per Virtual server	16						32
Protocol options		500						
Profile groups per VDOM		500						
IP pools per VDOM		1024	4096 <sup>R</sup>	2048	4096			

FortiGate Model		1000A 1000FA2	1000C, 1240B	3600,3600A 3016B, 3810A	3040B, 3140B, 3240C	3950B, 3951B	VM, VM64	5000 Series
Feature								
Static IP/Mac bindings		1000						
Traffic Shapers		500						
Per-IP traffic shaper		500						
<b>UTM</b>								
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						20000
	FortiGuard local categories per VDOM	52						
	FortiGuard local ratings per VDOM	12000						
	FortiGuard admin overrides per VDOM	400						500

FortiGate Model		Feature						
		1000A 1000FA2	1000C, 1240B	3600,3600A 3016B, 3810A	3040B, 3140B, 3240C	3950B, 3951B	VM, VM64	5000 Series
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 entries per VDOM	50000	250000					
	MIME header lists	1000	2000					
	MIME header list entries per VDOM	50000	250000					
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						
<b>VPN</b>								
Certificate	Local	500	1000					
	CA	200						
	CRL	200						

FortiGate Model		Feature						
		1000A 1000FA2	1000C, 1240B	3600,3600A 3016B, 3810A	3040B, 3140B, 3240C	3950B, 3951B	VM, VM64	5000 Series
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						
<b>User</b>								
Local	Local users	1000	5000					
Radius	Servers	10						
LDAP	Servers	10						
TACACS+	Servers	10						
FSSO	Servers	5						
FortiToken	Users	1000	5000					
Windows AD	Active Directory groups per domain	1024						
User Group	User groups	800						
	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						
<b>WAN Optimization</b>								
<b>Note: WAN optimization is supported only on FortiGate models with internal storage.</b>								
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								
Feature	1000A 1000FA2	1000C, 1240B	3600,3600A 3016B, 3810A	3040B, 3140B, 3240C	3950B, 3951B	VM, VM64	5000 Series	
<b>Wireless Controller</b>								
SSID	16							
Managed Wireless Access Points	256	512	1024					
Max Number of FortiAP Access Points Supported	256	512	1024					
Assigned Virtual AP list for each Physical AP	16							
<b>Logging</b>								
Traffic filter rules	50							
Custom log fields per firewall policy	5							
Datasets	256	320						
Fields per dataset	32							
Charts	256	320						
Chart mapping	8							
Summary	16	32						
Style	128	256						
Theme	8	16						
Layout	16	32						
Body items per layout	256							
Headers per page, per report layout	2							
Footers per page, per report layout	2							

## Notes

<sup>A</sup> The 30-series do not have VLAN or VDOM support. Only the physical interfaces are available.

<sup>B</sup> FortiGate-82C value = 3

<sup>C</sup> FortiGate-1000A value = 500

<sup>D</sup> FortiGate-5001 and 5001FA2 value = 4096

<sup>E</sup> FortiGate-5001FA2 value = 4096

<sup>F</sup> The listed ARP limits apply only to static MAC addresses that you manually assign. The number of MAC addresses the FortiGate unit will 'learn' on its own is limited only by system memory.

<sup>G</sup> FortiGate-51B value = 128

<sup>H</sup> FortiGate-82C value = 8

<sup>J</sup> FortiGate-3810A value = 40000

<sup>K</sup> FortiGate-5001A and 5001B value = 40000

<sup>L</sup> FortiGate-3810A value = 1000

<sup>M</sup> FortiGate-5001A and 5001B value = 1000

- <sup>N</sup> FortiGate-3810A value = 1000
- <sup>P</sup> FortiGate-5001A and 5001B value = 1000
- <sup>Q</sup> FortiGate-3600 value = 4096
- <sup>R</sup> FortiGate-3600 and 3600A value = 2048

## Revision history

Version	Description of changes	Date
52	Updated the <b>About per VDOM limits and per unit limits</b> section to correct and clarify what values apply when VDOMs are not enabled. The 'No set limit' value changed to 'N/A'.	13 Aug 2012
51	Updated the OSPF 'Neighbors' rows to more accurately read 'Static neighbors'.	29 Jun 2012
50	Added values for the FortiGate-800C and the FortiGate-1240B.	28 May 2012
49	Corrected the values for the <b>Max Number of FortiAP Access Points Supported</b> for FortiWiFi models for FortiOS 4.0 MR3 patch 6.	15 March 2012
48	Added values for the FortiGate-100D. Renamed the field <b>Managed Physical AP</b> to <b>Managed Wireless Access Points</b> . Added a new field <b>Max Number of FortiAP Access Points Supported</b> . For all FortiGate models these two values are the same; however, they are different for some FortiWiFi models. Changed the section names of this document, added a new FortiWiFi section, added a Contents section. Reversed the sort order and altered the columns of this Revision History table.	7 February 2012
47	Added values for the FortiGate-20C series and the FortiGate-40C series.	20 December 2011
46	Added values for the FortiGate-300C, 600C, and 1000C. Updated the BGP neighbors values to 4.0 MR3 Patch 3.	16 November 2011
45	Updated the IP pools label to indicate the value is the maximum number of IP pools per VDOM.	4 October 2011
44	Updated to include 4.0 MR3, Patch 1 information.	6 July 2011
43	Added values for the FortiGate VM model. Added values for replacement message groups and replacement message images. Made a number of corrections to the values in the 2U, 3U, blade models table.	4 May 2011

Version	Description of changes	Date
42	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.	17 March 2011
41	Expanded the introduction with transparent mode information and additional details about VDOMs. Moved revision history to the end of the document.	4 February 2011
40	Added information for FortiGate-3040B, FortiGate-3950B and 3951B.	16 December 2010
39	Corrected the ARP table size information.	30 November 2010
38	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.	8 November 2010
37	Corrected the Managed Physical AP numbers for 30B and 50 series.	20 September 2010
36	Corrected the firewall policies number for FortiGate-200B. Updated information for wireless controller section and added directory service user groups.	12 August 2010
35	Corrected the number in IP pool for the FortiGate-3000 series column.	13 July 2010
34	Corrected the number in the All 80 models column for Real servers per Virtual server.	22 April 2010
33	Removed 200B from the column, 200A, 200B, 224B.	19 April 2010
32	Added the FortiGate-ONE information. Updated to include 4.0 MR2 information.	13 April 2010
31	Added information for FortiGate-1240B and FortiGate-200B.	2 February 2010
30	Corrected numbers for virtual servers for 80 models and 110C and 111C models.	23 November 2009
29	Added FortiGate-200B values.	17 November 2009
28	Revised numbers for virtual servers.	12 November 2009
27	Updated to include virtual servers and real servers per virtual server.	11 November 2009



Version	Description of changes	Date
26	Updated to include FortiGate-1240B units running special build 3.0 MR7. This 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.	3 November 2009
25	Updated the values for 4.0MR1 and added the FortiWiFi-80CM, FortiGate-80CM, 80C, and 82C.	10 September 2009
24	Expanded the virtual servers and real servers per virtual server information to cover all models and moved it into the main table under Firewall.	29 July 2009
23	Corrected some FortiGate-30B values and added the virtual servers table.	22 May 2009
22	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.	15 April 2009
21	Updated the values for 4.0 and added the FortiGate-110B and the FortiGate-620B.	4 March 2009
20	Updated the values for 3.0MR7 and added the FortiGate-30B.	26 August 2008
19	Added the FortiGate-310B.	15 May 2008
18	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.	15 January 2008
17	Added/updated features for FortiOS v3.0 MR5 PD 25 June 2007.	15 June 2007
16	Corrected system interface values, divided into Transparent and NAT mode.	11 April 2007
15	Corrected value in Router (NAT mode), Static, Static routes.	08 February 2007
14	Added/updated features for FortiOS v3.0 MR4 PD 29 December 2006.	29 December 2006

Version	Description of changes	Date
13	Added/updated features for FortiOS v3.0 MR3 PD 29 September 2006.	29 September 2006
12	Added new features for FortiOS v3.0 MR2 PD 19 June 2006.	19 June 2006
11	Added new features, updated limits for existing features where required. Added VDOM/global limits to features that can be configured per VDOM and globally. <b>Note:</b> The feature <b>DHCP IP/MAC Bindings</b> is now referred to as <b>DHCP Reserved addresses</b> .	28 April 2006
10	Changed number of interfaces for 100A to 64.	26 October 2005
9	Updated, reformatted for FortiOS v3.0.	4 October 2005
8	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.	12 May 2005
7	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.	08 April 2005
6	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.	25 February 2005
5	Corrected max number of protection profiles to 200 for models 3000 and up.	5 November 2004
4	Updated maximum numbers of Virtual Domains for NAT/Route and Transparent mode. Clarified Spam Filter limits. Removed model 2000. FortiOS v2.80 MR4	17 August 2004
3	Complete change for FortiOS v2.80	5 May 2004
2	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	9 March 2004
First Release	FortiOS v2.50	23 October 2003