



FortiGate Maximum Values Matrix
Version 3.0 MR2



www.fortinet.com

FortiGate Maximum Values Matrix Technical Note
Version 3.0 MR2
19 June 2006
01-30002-0074-20060619

© Copyright 2006 Fortinet, Inc. All rights reserved. No part of this publication including text, examples, diagrams or illustrations may be reproduced, transmitted, or translated in any form or by any means, electronic, mechanical, manual, optical or otherwise, for any purpose, without prior written permission of Fortinet, Inc.

Trademarks

ABACAS, APSecure, FortiASIC, FortiBIOS, FortiBridge, FortiClient, FortiGate, FortiGuard, FortiGuard-Antispam, FortiGuard-Antivirus, FortiGuard-Intrusion, FortiGuard-Web, FortiLog, FortiManager, Fortinet, FortiOS, FortiPartner, FortiProtect, FortiReporter, FortiResponse, FortiShield, FortiVoIP, and FortiWiFi are trademarks of Fortinet, Inc. in the United States and/or other countries. The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

Regulatory compliance

FCC Class A Part 15 CSA/CUS



Caution: If you install a battery that is not the correct type, it could explode. Dispose of used batteries according to local regulations.

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 <i>DHCP IP/MAC Bindings</i> is now referred to as <i>DHCP Reserved addresses</i> .
Release 12	19 June 2006	Added new features for FortiOS v3.0 MR2 PD 19 June 2006.

FortiGate maximum values

This table shows maximum configurable values and is not a promise of performance.

Limits are global for features that are global, per virtual domain for features that are configured for each VDOM. For information about global and per-VDOM features, see the System VDOM chapter of the *FortiGate Administration Guide* for your unit.

Feature		FortiGate Model												
		50A	60, 60M WiFi-60A	WiFi-60 60WM	100 100A	200 200A	300 300A	400 400A	500 500A	800 800F	1000. 1000A 1000FA2	3000 3020	3600 3620	4000, 5001 5001FA2 5002, 5004
System														
Interface	Interfaces (VLAN + physical)	256	256	256	256	4096	4096	4096	8192	8192	8192	8192	8192	8192
	Secondary IP addresses per interface	32	32	32	32	32	32	32	32	32	32	32	32	32
	IPv6 prefix lists per interface	32	32	32	32	32	32	32	32	32	32	32	32	32
IPv6 tunnels		4	4	4	4	4	4	4	4	4	4	4	4	4
Zones		20	20	20	20	50	50	100	100	100	200	300	500	500
DHCP	DHCP servers per VDOM	8	8	8	8	32	32	32	32	32	32	32	32	32
	DHCP exclude ranges	4	4	4	4	16	16	16	16	16	16	16	16	16
	DHCP reserved addresses	10	20	20	30	30	50	50	100	100	200	200	200	200
SNMP v1&v2c	Communities	3	3	3	3	3	3	3	3	3	3	3	3	3
	Community hosts	8	8	8	8	8	8	8	8	8	8	8	8	8
Admin	Accounts	300	300	300	300	300	300	300	300	300	300	300	300	550
	Access profiles	8	8	8	8	16	16	16	16	16	64	64	64	64
Session-helper		32	32	32	32	256	256	256	256	256	256	256	256	256
Session-ttl ports		512	512	512	512	512	512	512	512	512	512	512	512	512
Mac Wireless filters				64										
Mac Address table size		50	50	50	50	50	50	50	50	50	50	50	50	50
VDOM link		** VDOM link is an interface. See maximum values for system interfaces. **												
GRE tunnel		** GRE tunnel is an interface. See maximum values for system interfaces. **												
ARP table size		50	50	50	50	50	50	50	50	50	50	50	50	50
ARP proxy		50	50	50	50	50	50	50	50	50	50	50	50	50
TOS-based priority		16	16	16	16	16	16	16	16	16	16	16	16	16

		FortiGate Model												
Feature		50A	60, 60M WiFi-60A	WiFi-60 60WM	100 100A	200 200A	300 300A	400 400A	500 500A	800 800F	1000. 1000A 1000FAZ	3000 3020	3600 3620	4000, 5001 5001FAZ 5002, 5004
Router (NAT mode)														
Static	Static routes	32	32	32	32	500	500	500	500	500	1000	1000	1000	1000
Static6	Static routes for IPv6	8	8	8	8	500	500	500	500	500	500	500	500	500
Policy	Policy routes	16	16	16	16	100	100	100	100	250	250	250	250	250
Access-list	Entries	32	32	32	32	100	100	100	100	100	100	100	100	100
	Rules per entry	20	20	20	20	20	20	20	20	20	20	20	20	20
Prefix-list	Entries	32	32	32	32	100	100	100	100	100	100	100	100	100
	Rules per entry	20	20	20	20	20	20	20	20	20	20	20	20	20
Key-chain	Entries	16	16	16	16	16	16	16	16	16	100	100	100	100
	Rules per entry	20	20	20	20	20	20	20	20	20	20	20	20	20
BGP	Confederation-peers	50	50	50	50	50	50	50	50	50	50	50	50	50
	Aggregate-address	50	50	50	50	50	50	50	50	50	50	50	50	50
	Neighbors	50	50	50	50	50	50	50	50	50	50	50	50	50
	Network	50	50	50	50	50	50	50	50	50	50	50	50	50
RIP	Networks	100	100	100	100	100	100	100	100	100	100	100	100	100
	Distribute lists	100	100	100	100	100	100	100	100	100	100	100	100	100
	Neighbors	100	100	100	100	100	100	100	100	100	100	100	100	100
	Offset lists	32	32	32	32	32	32	32	32	32	32	32	32	32
	Distances	100	100	100	100	100	100	100	100	100	100	100	100	100
	Passive interfaces	300	300	300	300	300	300	300	300	300	300	300	300	300
OSPF	Interfaces	32	32	32	32	32	32	32	32	32	32	32	32	32
	Areas	50	50	50	50	50	50	50	50	50	50	50	50	50
	Range of areas	20	20	20	20	20	20	20	20	20	20	20	20	20
	Virtual links	10	10	10	10	10	10	10	10	10	10	10	10	10
	Filter lists	10	10	10	10	10	10	10	10	10	10	10	10	10
	Interfaces	100	100	100	100	100	100	100	100	100	100	100	100	100
	Networks	100	100	100	100	100	100	100	100	100	100	100	100	100
	Neighbors	10	10	10	10	10	10	10	10	10	10	10	10	10
	Passive interfaces	100	100	100	100	100	100	100	100	100	100	100	100	100
	Summary addresses	10	10	10	10	10	10	10	10	10	10	10	10	10
Route	Distribute lists	10	10	10	10	10	10	10	10	10	10	10	10	10
	Map	100	100	100	100	100	100	100	100	100	100	100	100	100
	Map rule	20	20	20	20	20	20	20	20	20	20	20	20	20

Feature		FortiGate Model												
		50A	60, 60M WiFi-60A	WiFi-60 60WM	100 100A	200 200A	300 300A	400 400A	500 500A	800 800F	1000, 1000A 1000FAZ	3000 3020	3600 3620	4000, 5001 5001FAZ 5002, 5004
Firewall														
Policies	VDOM	200	500	500	1000	2000	5000	5000	20000	20000	50000	50000	50000	50000
	Unit	No limit	No limit	No limit	No limit	4000	10000	10000	40000	40000	100000	100000	100000	100000
Policy pool names		64	64	64	64	64	64	64	64	64	64	64	64	64
IPv6 policies	VDOM	200	500	500	1000	2000	5000	5000	20000	20000	50000	50000	50000	50000
	Unit	No limit	No limit	No limit	No limit	4000	10000	10000	40000	40000	100000	100000	100000	100000
Multicast policies		32	32	32	32	64	64	64	128	128	128	256	256	256
DNS translations		32	32	32	32	32	32	32	32	32	32	32	32	32
Addresses	VDOM	500	500	500	500	1000	3000	3000	6000	6000	10000	10000	10000	10000
	Unit	No limit	No limit	No limit	No limit	No limit	6000	6000	12000	12000	20000	20000	20000	20000
IPv6 addresses	VDOM	500	500	500	500	1000	3000	3000	6000	6000	10000	10000	10000	10000
	Unit	No limit	No limit	No limit	No limit	No limit	6000	6000	12000	12000	20000	20000	20000	20000
Address group	Groups	500	500	500	500	500	500	500	500	500	500	500	500	500
	Addresses per group	300	300	300	300	300	300	300	300	300	300	300	300	300
IPv6 address group	Groups	500	500	500	500	500	500	500	500	500	500	500	500	500
Service	Predefined services	500	500	500	500	500	500	500	500	500	500	500	500	500
	Custom services	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024
Service group	Groups	500	500	500	500	500	500	500	500	500	500	500	500	500
	Services per group	300	300	300	300	300	300	300	300	300	300	300	300	300
Schedules	One-time	256	256	256	256	256	256	256	256	256	256	256	256	256
	Recurring	256	256	256	256	256	256	256	256	256	256	256	256	256
Virtual IP	Virtual IPs	500	500	500	500	500	500	500	500	500	500	1024	1024	1024
	IP pools	512	512	512	512	512	512	512	512	512	512	512	512	512
Static IP/Mac bindings		256	256	256	256	1000	1000	1000	1000	1000	1000	1000	1000	1000
Protection profiles		32	32	32	32	32	32	32	500	500	500	500	500	500

Feature		FortiGate Model												
		50A	60, 60M WiFi-60A	WiFi-60 60WM	100 100A	200 200A	300 300A	400 400A	500 500A	800 800F	1000, 1000A 1000FA2	3000 3020	3600 3620	4000, 5001 5001FA2 5002, 5004
VPN														
Certificate	Local	200	200	200	200	200	200	200	200	200	200	200	200	200
	CA	200	200	200	200	200	200	200	200	200	200	200	200	200
	CRL	200	200	200	200	200	200	200	200	200	200	200	200	200
IPSec	Phase1 per VDOM	20	50	50	80	200	1500	1500	3000	3000	5000	5000	5000	5000
	Phase1 per unit	No limit	No limit	No limit	No limit	No limit	3000	3000	6000	6000	10000	10000	10000	10000
	Phase1 interface	** See maximum values for system interfaces. **												
	Phase2 per VDOM	20	50	50	80	200	1500	1500	3000	3000	5000	5000	5000	5000
	Phase2 per unit	No limit	No limit	No limit	No limit	No limit	3000	3000	6000	6000	10000	10000	10000	10000
	Phase2 interface	** See maximum values for system interfaces. **												
	Manual-keys per VDOM	20	50	50	80	200	1500	1500	3000	3000	5000	5000	5000	5000
	Manual-keys per unit	No limit	No limit	No limit	No limit	No limit	3000	3000	6000	6000	10000	10000	10000	10000
	Manual-keys interface	** See maximum values for system interfaces. **												
	Concentrators	500	500	500	500	500	500	500	500	500	500	500	500	500
Tunnels per concentrator	300	300	300	300	300	300	300	300	300	300	300	300	300	
User														
Local	Local users	20	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Radius	Servers	6	6	6	6	6	6	6	6	6	6	6	6	6
LDAP	Servers	6	6	6	6	6	6	6	6	6	6	6	6	6
Windows AD	Servers	256	256	256	256	256	256	1024	1024	1024	1024	1024	1024	1024
User Group	User groups	100	100	100	100	100	100	100	100	100	100	100	100	100
	Members per user group	350	350	350	350	350	350	350	350	350	350	350	350	350
Antivirus														
	File block file patterns	56	56	56	56	56	56	56	56	56	56	56	56	56
	File patterns for auto-submission to Fortinet	20	20	20	20	20	20	20	20	20	20	20	20	20
Intrusion Protection														
	Custom IPS signatures	32	32	32	32	32	32	32	32	32	32	128	128	128
	Anomalies	100	100	100	100	100	100	100	100	100	100	100	100	100

Feature	FortiGate Model												
	50A	60, 60M WiFi-60A	WiFi-60 60WM	100 100A	200 200A	300 300A	400 400A	500 500A	800 800F	1000, 1000A 1000FA2	3000 3020	3600 3620	4000, 5001 5001FA2 5002, 5004
Web Filter													
FortiGuard local catalog	20	20	20	20	20	20	20	20	20	20	20	20	20
IM/P2P													
AIM users	20	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
ICQ users	20	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
MSN users	20	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Yahoo users	20	500	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Logging													
Traffic filter rules	50	50	50	50	50	50	50	50	50	50	50	50	50

FORTINET™

www.fortinet.com

FORTINET™

www.fortinet.com