



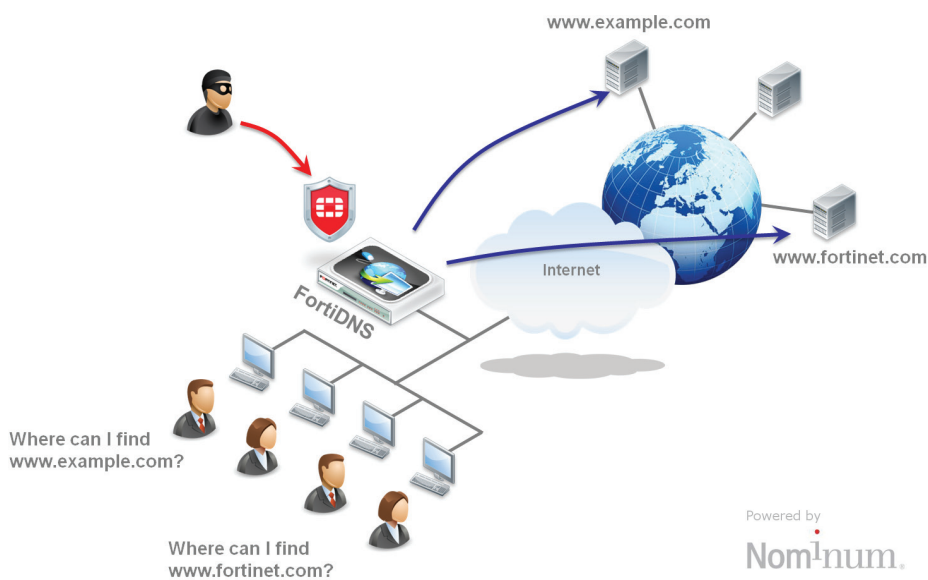
FortiDNS™ Caching DNS and DHCP Server

Domain Name System (DNS), the method of translating names to device IP addresses, is the lifeblood of the internet. Without it, e-mail cannot be sent, web sites cannot be found and access to the internet in general grinds to a halt. Similarly, DHCP, the method by which clients get their IP address, is critical to smooth functioning of the network. If compromised, DNS can open an organization up to attack and subversion via the redirection of users to malicious content. Without DHCP client systems cannot send e-mail or browse the internet. Together, these systems are the most critical but often overlooked components of business continuity.

The problem with DNS and DHCP is that they can be complicated, prone to misconfiguration, and require often complex interaction at the command line. FortiDNS has been designed from the ground up as a highly secure caching DNS system to replace existing legacy solutions and is 100% GUI-driven to reduce the risk of configuration error.

Built with security in mind

The FortiDNS appliances are dedicated secure caching DNS appliance targeted at medium to large enterprises, government and educational customers, and provides caching DNS with a focus on security. To achieve this, Fortinet has partnered with Nominum, one of the leading DNS solutions providers, to power the core of the solution.



Strengthens enterprise security with highly secure DNS implementation.

- Hardened appliance format with GUI driven configuration significantly reduces the complexity of deployment and reduces operational overheads.
- “Powered by Nominum” delivers market leading carrier class DNS and DHCP services to the enterprise.
- High performance DNS caching speeds up name resolution and ultimately network performance.
- High performance DHCP server enables fast IP address allocation for large networks with many or transient clients and rapid network recovery on e.g. power outage or switch reboot.
- IPv6 and DNSSEC support enables deployment with confidence that future requirements will be covered.



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HIGHLIGHTS

IPv6 Support

There has been a great deal of discussion about moving towards IPv6 and Fortinet have been one of the pioneers of IPv6 enabled unified threat management, however, progress has been slow. Those already with an allocation of IPv4 addresses do not have the motivation to migrate. However, that is rapidly changing. The final block of IPv4 IP addresses were issued by Internet Assigned Numbers Authority IANA on February 3rd, 2011. This means that the Regional Internet Registries will have no more IPv4 addresses to distribute once their current allocation has depleted. On 15th April, 2011, APNIC, the internet registry for the Asia-Pacific region, announced that they are in exactly that situation, and are recommending an immediate move to IPv6. Fortinet are committed to supporting this migration and the FortiDNS product range supports both IPv4 and IPv6 DNS to ease the migration process and future proof your investment.

Simplified Management

DDNS has traditionally been a complicated and error prone system to manage and administer. Simple configuration errors on the command line can prove disastrous and difficult to troubleshoot. FortiDNS is a fully hardened, appliance based solution, removing the need to patch and maintain the host operating system. The appliance is a fully GUI configured solution, simplifying the task of administering the solution and minimizing the risk of misconfiguration and reducing operational overheads significantly.

Fortinet solutions offer you unparalleled security and performance, whether you're looking for a single platform to deliver unified threat management, a system to protect specific content such as web, messaging, or database traffic or a focused DNS security solution. Fortinet provides network and security solutions that address the most critical needs facing organizations of every size, including global enterprises, carriers, and service providers. To provide strong security without performance penalties, Fortinet products leverage breakthroughs in chip design, networking, security and content pattern recognition analysis. The unique, ASIC-based architecture analyzes network content and behavior in real-time, enabling all key network services— including real-time web applications—to be screened for both network and content-level threats without impacting network performance. FortiCache expands on the long experience working in the enterprise market and delivers scalability, high performance caching DNS at a competitive price point..

Powered by Nominum

The FortiDNS appliances are the result of a technology partnership with Nominum, the worldwide leader in intelligent DNS and DHCP business solutions that support over 500 million broadband and mobile users worldwide. With Fortinet's experience in the enterprise security market and Nominum's experience in delivering secure DNS and DHCP solutions to high end carriers and ISPs, both companies took the decision to join forces to deliver the most powerful yet manageable product available on the market for the enterprise.

FortiDNS includes unique security defenses prevent attacks on the DNS infrastructure that endanger Internet users or reduce availability. Complete support for IPv6 simplifies the migration from IPv4 and next generation addressing. Future joint developments will see the addition of value added security services to compliment the DNS service.

SPECIFICATIONS

	FORTIDNS-400C	FORTIDNS-1000C	FORTIDNS-3000D
Interfaces & Modules			
GE RJ45 Ports	4	4	4
GE SFP Slots	-	-	2
Local Storage	1 TB (Max 2 TB)	1 TB	2 x 2 TB
System Performance & Capacity			
Max Queries per Second	30,000	60,000	100,000
Max DNS Clients	10,000	10,000	10,000
Max DHCP Leases per Second	250	350	450
System Specification			
Standards Supported	200,IP, Telnet, HTTP 1.0/1.1, SSL, RS232, NTP Client (RFC1305), DNS RFCs 1034, 1035, 1123, 1183, 1706, 5155, 5702, 6147, 1712, 2163, 2181, 2230, 2308, 2538, 2671, 2672, 2782, 2845, 2930, 2931, 3008, 3123, 3225, 3226, 3401, 3402, 3403, 3404, 3596, 3597, 3655, 3645, 4033, 4034, 4035, 4343, 4398, 4470, 4509, 4892, 5001, 5011		
Management	Telnet & SSH CLI , Direct Console (for basic network configuration), HTTPS GUI for all other administration.		
Dimensions			
Form Factor	Rack Mountable (1RU)	Rack Mountable (1RU)	Rack Mountable (2RU)
Height	1.70 in (44 mm)	1.69 in (43 mm)	3.44 in (87.3 mm)
Width	17.1 in (435 mm)	17.09 in (434 mm)	20.0 in (482.4 mm)
Length	14.3 in (364 mm)	24.7 in (627 mm)	29.72 in (755 mm)
Weight	23.0lbs (10.43kg)	24.2 lb (11.0 kg)	26 / 5 Gbps
Environment			
Current (Max)	4A /110V, 2A / 240V	3.50A /110V, 1.75A /220V	110V/10A, 220V/5A
Power Consumption (AVG)	100.3 W	189 W	317 W
Heat Dissipation	410.7 BTU/h	643 BTU/h	1,733.64 BTU/h
Operating Temperature	32 – 104 deg F (0 – 40 deg C)	32 – 104 deg F (0 – 40 deg C)	50 - 95 deg F (10 - 35 deg C)
Storage Temperature	-13 – 158 deg F (-25 – 70 deg C)	-13 – 158 deg F (-25 – 70 deg C)	-40 - 149 deg F (-40 - 65 deg C)
Humidity	10 to 90% non-condensing	5 to 90% non-condensing	20 to 90% non-condensing
Compliance & Certification			
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB	FCC Part 15 Class A, C-Tick, VCCI, CE, BSMI, KC, UL/cUL, CB, GOST

ORDER INFORMATION

Product	SKU	Description
FortiDNS-400C	FNS-400C	FortiDNS-400C, up to 20,000 DNS req/sec
FortiDNS-1000C	FNS-1000C-E07S	FortiDNS-1000C, up to 30,000 DNS req/sec
FortiSwitch-348B	FNS-3000D	FortiDNS-3000D, up to 100,000 DNS req/sec



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