



## Minimum Specifications for Firewall

Firewall (Unified Threat Management (IPS) Next Gen Firewalls with HA) should have minimum requirement.

1. Network security appliance should support "Stateful" policy inspection technology. It should also have application intelligence for commonly used TCP/IP protocols like telnet, ftp etc.
2. The proposed vendor must have a track record of continuous improvement in threat detection (IPS) and must have successfully completed NSS Labs NGFW Methodology v7.0 testing with a minimum exploit blocking rate of 99%.
3. OEM should be in leaders quadrant of Gartner's -- in Enterprise Firewall Magic Quadrant as per the latest report
4. Appliance shall be ICSA certified for Firewall, IPS & Gateway AntiVirus functionalities
5. Minimum 8 x 1GE RJ45 inbuilt interfaces, 8 x 1GE SFP interface and 2 x 10GE SFP+ interface slots from day one
6. The Appliance should have USB & Console Ports and dedicated HA ports in addition to requested data ports
7. The Firewall should be on multiprocessor architecture with minimum support of 7,500,000 concurrent sessions, and 300,000 new sessions per second from day one and Firewall Latency should not be more than 3  $\mu$ s
8. Minimum IPS throughput of 5000 Mbps for real world traffic or enterprise mix traffic
9. Minimum Threat Prevention Throughput (measured with Application Control and IPS and Anti-Malware enabled) of 5000 Mbps for real world traffic or enterprise mix traffic
10. IPSec VPN throughput: minimum 20 Gbps
11. Application control throughput 14Gbps (64K HTTP)
12. Proposed solution must support minimum 6.5 Gbps of SSL Inspection throughput
13. Proposed solution must support minimum 10 virtual firewall from day one
14. Firewall should provide application inspection for LDAP, SIP, H.323, SNMP, FTP,SMTP, HTTP, DNS, ICMP, DHCP, RPC,SNMP, IMAP, NFS etc
15. IPv6-enabled inspection services for applications based on HTTP, FTP, SMTP, ICMP, TCP, and UDP
16. Allows secure deployment of next-generation IPv6 networks, as well as hybrid environments that require simultaneous, dual stack support of IPv4 and IPv6



17. The firewall should support transparent (Layer 2) firewall or routed (Layer 3) firewall Operation

18. Management & Reporting functionality

19. Other support like- Web-Filtering, Application-Control & Gateway level DLP from day one

20. Anti-Virus & Anti Bot Integrated IPS Features Set