

Supported IPv6 Standards

<https://campus.barracuda.com/doc/96026016/>

The CloudGen Firewall supports several IPv6 standards that are based on RFCs. See the table below for further details.

IPv4 to IPv6 and IPv6 to IPv4 NAT

Network address translation (NAT) from IPv4 to IPv6 and from IPv6 to IPv4 is not supported.

IPv6 Supported Standards

IPv6 Standard	RFCs
IPv6 Basic specification	RFC2460
IPv6 Addressing Architecture	RFC4291
Default Address Selection	RFC3484
ICMPv6	RFC4443
SLAAC	RFC4862
Deprecation of Type 0 Routing Headers in IPv6	RFC5095
Inspecting IPv6-in-IPv4 protocol-41 traffic, only as part of...	RFC4213
Router-Alert option	RFC2711
Path MTU Discovery	RFC1981
Neighbor Discovery	RFC4861
BGP4 protocol	RFC4271 , RFC1772 , RFC4760 , RFC2545
Dynamic Internal Gateway Protocol (IGP)	RFC2080 (RIPng) , RFC5340 (OSPF-v3)
Authentication/Confidentiality for OSPFv3	RFC4552
QoS	RFC2474 , RFC3140
Basic Transition Mechanisms for IPv6 Hosts and Routers	RFC4213
IPv6 Router Advertisement Options for DNS Configuration	RFC6106
BGP Communities Attribute	RFC1997
BGP Capabilities Advertisement WITH-4	RFC3392
IPsec/IKEv2 (IPv6 listen-address and IPv4 payload)	RFC4301 , RFC4303 , RFC4302 , RFC5996

Using IPsec to Secure IPv6-in-IPv4 Tunnels (IKEv2 with ipv6 payload)	RFC4891
OSPF-v3	RFC5340
SNMP protocol	RFC3411
SNMP capabilities	RFC3412 , RFC3413 , RFC3414
SNMP MIBs for • IP • Forwarding • DiffServ	RFC... • RFC4293 • RFC4292 • RFC3289
DNS extensions to support IPv6	RFC3596
DNS message extension mechanism	RFC2671
DNS message size requirements	RFC3226
Using IPsec to Secure IPv6-in-IPv4 Tunnels	RFC4891
Default Router Preferences and More-Specific Routes	RFC4191

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