

IPv6 on iPhone

Starting from iOS 4, iPhones provide support for IPv6 over the WiFi interface. Only stateless autoconfiguration is possible: the iPhone listens to Router Advertisement packets and automatically gets IPv6 configuration. The [IPv6 Toolkit](#), downloadable from the App Store, shows extended information on the IPv6 configuration of the iPhone:



Figure 1. IPv6 toolkit interface

Note that two IPv6 addresses are auto-configured using a /64 announced prefix:

1. One address with a MAC-based interface identifier on the last 64 bits,
2. A second address with a random interface identifier, as specified by [RFC 4941](#) on Privacy extensions for stateless address autoconfiguration in IPv6.

On the integrated Safari navigator, the [ipv6-test.com](#) website shows that the iPhone can be considered as a dual stack equipment and that the RFC 4941 autoconfigured address is used over the internet.



Figure 2. Testing IPv6 on an iPhone

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