How to get an initial IPv6 block from your RIR

Regional Internet Registries (RIRs) distribute address space according to policies developed by the community. As the Internet evolves, the community adapts policy to the meet the changing needs of the environment. The description in this fact sheet of how to get IPv6 addresses in each of the RIRs is a snapshot of policy as of 1 July 2010.

This fact sheet describes how Local Internet Registries (LIRs) can receive their first block of IPv6. A Local Internet Registry (LIR) primarily assigns address space to the users of the network services that it provides. In general, LIRs tend to be ISPs.

End sites can also receive IPv6 addresses directly from RIRs. An end site is an organization receiving assignments of IP addresses exclusively for use in its operational networks. Examples of end sites include TLD (Top Level Domain) managers, banks, and small-to-medium enterprises.

This fact sheet's scope is limited to providing information on how LIRs can receive their first IPv6 allocation as it is LIRs which form the overwhelming majority of requests received by the RIRs.

IPv6 for LIRs

The minimum IPv6 allocation size in all regions is /32 (or 2^{96} addresses). Larger allocations may be made if organizations can demonstrate a need for it. The policies that describe the criteria for eligibility for an IPv6 addresses vary slightly in each region. The allocation information below is specifically for an LIR's first IPv6 block from an RIR.

AfriNIC	
Criteria	• Be an LIR • Plan to provide IPv6 connectivity to organizations in the AfriNIC region • Plan to assign a reasonable number of /48's to end-sites in the AfriNIC region within 12 months
Form	IPv6 first allocation request form http://www.afrinic.net/forms/affrm-v6fst200501.htm
Policy	AfriNIC IPv6 address allocation and assignment policy http://www.afrinic.net/docs/policies/afpol-v6200407-000.htm
More Information	Contact AfriNIC: http://www.afrinic.net/contact.htm

APNIC	
Criteria	• Have an IPv4 allocation from APNIC Alternative criteria are available for LIRs that do not have an IPv4 allocation from APNIC.
Form	One-click request form available via MyAPNIC https://my.apnic.net
Policy	IPv6 address allocation and assignment policy http://www.apnic.net/policy/ipv6-address-policy
More Information	Contact the APNIC Helpdesk: http://www.apnic.net/helpdesk

ARIN

Criteria	• Be an LIR • Plan to provide IPv6 connectivity to organizations that you assign IPv6 address space to • Be an existing, known ISP in the ARIN region **OR** have a plan for making at least 200 assignments to other organizations within five years
Form	Template: ARIN-NET-IPv6 https://www.arin.net/resources/templates/v6-isp.txt
Policy	Section 6, "IPv6", of the ARIN Number Resource Policy Manual (NRPM) https://www.arin.net/policy/nrpm.html
More Information	Contact the ARIN Registration Services Help Desk: https://www.arin.net/resources/help_desk.html

LACNIC

Criteria	• Have an IPv4 allocation from LACNIC Alternative criteria are available for LIRs that do not have an IPv4 allocation from LACNIC.
Form	LACNIC IPv6 template (English) http://lacnic.net/templates/isp-v6-template-en.txt
Policy	Section 4, "IPv6 address allocation and assignment policies" of the LACNIC policy manual http://www.lacnic.net/en/politicas/manual5.html
More Information	Contact LACNIC: http://www.lacnic.net/en/contact.html

RIPE NCC

Criteria	• Be an LIR • Have a plan for making sub-allocations to other organizations and/or End Site assignments within two years
Form	IPv6 first allocation request form http://www.ripe.net/ripe/docs/ipv6-first-alloc.html
Policy	IPv6 address allocation and assignment policy http://www.ripe.net/ripe/docs/ipv6-policy.html
More Information	Contact the RIPE NCC: http://www.ripe.net/rs/contact.html