(version 2007-01)

The goal of this document is to provide a comparative overview of policies across the Regional Internet Registry (RIR) system. It is not a policy statement by the RIRs, but serves as a reference for the Internet community. While this document was accurate on the date of publication (18 January 2007), it may be outdated by subsequent policy implementations. The official policy documents can be found at the respective websites of the RIRs. This is a public document that will be reviewed and revised through the coordinated efforts of the RIRs.

For more information, refer to the <u>AfriNIC</u>, <u>APNIC</u>, <u>ARIN</u>, <u>LACNIC</u>, and <u>RIPE NCC</u> websites.

RIR Comparative Policy Overview

(version 2007-01)

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1. General

1.1 Goals of the RIR System

RIR Policy

AfriNIC

APNIC

ARIN LACNIC All allocations and assignments of Internet resources must be consistent with the goals of the Internet Registry system: aggregation, conservation and registration.

RIPE

NCC

[TOP]

1.2 Membership

RIR	Category	Policy
	Qualification	Membership is globally open without condition.
AfriNIC	Access to registration services	Registration service is accessible by members only. Registered resources are publicly available.
	Fee model	Not-for profit. Fee established by members to enable cost recovery of operations.
	Qualification	Membership is open globally without conditions.
APNIC	Access to registration services	Members have full access to all services. Non-member account holders may access resource assignment and allocation services.
	Fee model	Not-for-profit organisation. Fee schedule established to enable cost recovery of operations.
	Qualification	Open globally without conditions. Organisations that receive allocations automatically become members.
ARIN	Access to registration services	Do not need to be a member to receive registration services.
	Fee model	Not-for-profit organisation. Fee schedule established to enable cost recovery of operations.
	Qualification	Membership is open to LACNIC region only, without conditions.
LACNIC	Access to registration services	Organisations approved for IP addresses automatically become members. It is not necessary to become a member to obtain some services like ASN assignments. Only organisations based in LACNIC region may apply for resources.
	Fee model	Not-for-profit organisation. Fee schedule established to enable cost recovery of operations.
RIPE	Qualification	Membership is open globally without conditions.
NCC	Access to registration services	Members only.

Fee model

Not-for-profit organisation. Fee schedule established to enable cost recovery of operations.

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1.3 Allocation Terms and Conditions

1.3.1 Type of Custodianship

RIR Policy

Assignments remain valid as long as the original criteria on which the AfriNIC assignment was based are still in place, membership fees paid, and the

assignment is registered in the AfriNIC database.

Allocates and assigns on a 'license' basis, to be of specific limited duration

(normally 1 year). Licenses are renewable if: a) the original basis of the APNIC

allocation or assignment remains valid and b) requirements have been met at

time of renewal.

ARIN Valid as long as original criteria remain satisfied and registration fees are

LACNIC kept up to date.

RIPE

Valid as long as original criteria remain satisfied. NCC

[TOP]

1.3.2 Transfer of Custodianship

RIR Policy

AfriNIC

ARIN Do not allow sale of addresses, but recognise name changes and transfers of tangible assets associated with addresses. Requires submission of legal LACNIC

documents. Utilisation is verified. May require new agreement. RIPE

NCC

As above, with the exception of "historical resource transfers". "Historical"

resources can be transferred to APNIC members without the need for the APNIC

technical justification procedures.

[TOP]

1.3.3 Recovering Unused Resources

RIR	Policy	Comment
AfriNIC ARIN LACNIC RIPE NCC	Valid as long as original criteria remain satisfied.	Does not actively recover unused resources, but if an organisation closes, unused resources are returned to the public pool.
	Valid as long as	Has policy to actively recover 'unused' networks.
APNIC	original criteria remain satisfied.	If an organisation ceases operation, unused resources are returned to the public pool.

2. IPv4

2.1 Initial Allocation

RIR	Category	Policy
	Size	Slow start: /22 (can be exceeded when justified by requesting LIR).
AfriNIC	Eligibility	The requesting organisation must show an existing efficient utilization of IP addresses from their upstream provider or an immediate need of IP addresses. Justification may be based on a combination of immediate need and existing usage.
	Period	2 years.
	Size	Slow start: /21 (can be exceeded when documented immediate infrastructure need exceeds /21).
APNIC	Eligibility	a) Membership or pay non-member fee; b) have previously used or can demonstrate immediate need for /23; c) complied with policies in managing all previous address space; d) detailed plan for use of a /22 within a year; e) commit to renumber from previously deployed space.
	Period	1 year.
ARIN	Size	Slow start: /22 minimum for multihomed, otherwise /20 (can be exceeded when documented immediate need exceeds /20).
	Eligibility	For a /22: efficient utilisation of a /23 from upstream; intent to multihome; agree to renumber,

or

For a /21: efficient utilisation of /22 from upstream; intent to multihome; agree to renumber,

or

For a /20: efficient utilisation of /21 from upstream; intent to multihome; agree to renumber,

or

Efficient utilisation of /20 from upstream (no renumbering required).

Period 3 months.

Size Slow start: /21, otherwise /20 (can be exceeded when documented immediate need exceeds /20).

For a /21: documented need of a /23;

or

For a /20:

Must have /22 from upstream; multihomed; agree to renumber within 12 months.

Eligibility

If not multihomed must demonstrate use of /21 from upstream

and agree to renumber within 12 months.

Demonstrate immediate need.

Period 3 months.

Size Slow start: /21 (can be exceeded when justified).

RIPE

LACNIC

NCC Eligibility a) Membership; b) Demonstration of need.

Period Not set during "slow start".

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2.2 Subsequent Allocations

RIR	Category	Policy	Comment

AfriNIC Size Minimum /22, no maximum. Contiguous

Demonstrate 80% efficient utilisation of all prior allocated space or an immediate need Eligibility that requires more IP addresses than are available in the LIRs most recent allocation. Period Up to 2 years. Minimum /21, no maximum. Size Demonstrate 80% efficient utilisation of all APNIC Eligibility prior allocated space. Period Up to 1 year. Minimum /22 for multihomed, otherwise Size /20, no maximum. Demonstrate efficient utilisation of all Eligibility previous allocations and at least 80% of the ARIN most recent allocation. 3 months. Internet Service Providers (ISPs) Period may request 6 months after they have been an ARIN member for one year. Size Minimum /20, no maximum. Demonstrate 80% efficient utilisation of all LACNIC Eligibility prior allocated space. Period 12 months. Size Minimum /21, no maximum. Demonstrate approximately 80% efficient RIPE Eligibility utilisation of all prior allocated space. NCC Up to two years, previous utilisation Period

allocation

possible.

provided where

[TOP]

2.3 Sub-Allocations

RIR Policy Comment

LIRs may sub-allocate addresses to other organisations, which further assign addresses to End Users. LIRs also assign addresses. Sub-allocations are subject to the 'Sub-

considered.

Allocation Window' procedure.

LIRs may sub-allocate addresses to other organisations, See section 2.5.1 which further assign addresses to end-users. LIRs also **APNIC** 'Assignment assign addresses. Sub-allocations are subject to the Window' below.

'Assignment Window' procedure.

ISPs may sub-allocate addresses to other organisations, ARIN

which further assign addresses to End Users.

RIR allocates and assigns IP blocks to organisations that can be ISPs, End Users or National Internet Registries,

LACNIC (NIRs - see section 7). NIRs allocate and assign IP blocks

> to organisations in their countries. ISPs may sub-allocate IP blocks to other ISPs or assign them to End Users.

LIRs may sub-allocate addresses to other organisations, RIPE which further assign addresses to End Users. LIRs also NCC

assign addresses. Sub-allocations are subject to the 'Assignment Window' policy.

See section 2.5.1 'Assignment Window' below.

[TOP]

APNIC

2.4 Assignments by RIRs (Independent/Portable)

2.4.1 General

RIR Category Policy Comment

> Size /24 minimum, no maximum.

> > - Must be AfriNIC member

AfriNIC - Assignments will be made

> according to the following Eligibility criteria: 25% immediate

utilisation rate and 50% utilisation rate within one year.

Size No minimum, no maximum.

Requesting organisation needs to

be multihomed and agree to renumber out of previously Eligibility

assigned address space.

Known as 'small multihoming assignment policy'. Can be applied for under membership or as a 'non-member account

holder'.

Assignments will be made

according to the following criteria: 25% immediate utilisation rate and 50% utilisation rate within one year.

/22 minimum for multihomed, Size

otherwise /20, no maximum.

Assignments will be made ARIN

according to the following

criteria: 25% immediate Eligibility utilisation rate and 50%

utilisation rate within one year.

Known as 'end-user'

assignments.

Size /24 minimum, no maximum.

> Multihomed organisations (End User) may receive a minimum of

/24 based on previous assignments of /25 from

LACNIC upstream providers.

Eligibility

Singlehome organisation may apply, for at least a /20, based on

demonstrated need of /21.

Size No minimum, no maximum. Submit an application via an RIPE

existing LIR. Cannot request NCC

Eligibility Based on demonstrated need. directly.

[TOP]

2.4.2 Critical Infrastructure

RIR Category Comment Policy

> Portable space Definition Public IXPs and core DNS service providers.

can be obtained /24AfriNIC Size by submitting a

> request directly to Eligibility No specific criteria defined.

AfriNIC.

Definition Root DNS, ccTLD, gTLD, IANA, RIRs. APNIC

> Size /24 minimum.

	Eligibility	Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.	
	Definition	Root DNS, ccTLD, gTLD, IANA, RIRs.	
	Size	/24 minimum.	Requested via the
ARIN	Eligibility	Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.	'micro- allocations' policy.
	Definition	Root DNS, ccTLD, gTLD, IANA, RIRs.	
	Size	/24 minimum.	Requested via the 'micro-
LACNIC	Eligibility	Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.	allocations' policy.
	Definition	Anycasting ccTLD, gTLD.	
	Size	/24.	
RIPE NCC	Eligibility	If the name server set of a ccTLD or a gTLD without anycasting technology applied would not pass the "IANA Administrative Procedure for Root Zone Name Server Delegation and Glue Data' the TLD administrator may receive a single dedicated /24 network prefix for the sole purpose of anycasting name servers, as described in RFC	Address space can be obtained by submitting a request through an existing LIR.

2.4.3 Internet Exchange Points (IXPs)

3258.

RIR	Category	Policy	Comment
AfriNIC	Size	/24.	Portable space can be obtained by
	Eligibility	No specific criteria defined.	submitting a request directly to AfriNIC.

	Size	/24 minimum assignment.	There is no
APNIC	Eligibility	Must be an IXP. The number of ISPs connected should be at least three and there must be a clear and open policy for others to join.	restriction on routing prefixes assigned under this policy.
	Size	/24 minimum assignment.	
ARIN	Eligibility	Exchange point operators must provide justification for the allocation, including: connection policy, location, other participants (minimum of two total), ASN, and contact information.	Requested via the 'micro-allocations' policy.
	Size	/24.	
LACNIC	Eligibility	Exchange point operators must provide documentation showing that it is an IXP, list of participants, structure diagram and numbering plan.	Requested via the 'micro-allocations' policy.
RIPE NCC	Size	No special policy.	Portable address
	Eligibility	No special policy.	space for this purpose can be requested via an existing LIR.

2.5 Assignments by LIRs (Aggregatable/Non-Portable)

2.5.1 Assignment Window

RIR	Policy	Comment
AfriNIC ARIN	Not applicable.	Assignment practices are audited by RIR staff at time of request for additional resources.
APNIC LACNIC RIPE NCC	LIRs/ISPs need approval from the RIR when making assignments larger than their Assignment Window. This is the number of addresses an LIR/ISP can assign without prior approval. The RIR sets the assignment window according to the LIR's/ISP's level of experience with the policies.	APNIC does not have assignment windows on infrastructure.

2.5.2 Dynamic Addressing

RIR Policy

AfriNIC APNIC

ARIN In general, dynamic assignment of IP addresses is expected on transient

LACNIC connections such as analogue dialup.

RIPE NCC

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2.5.3 Mobile Terminals

RIR Policy

AfriNIC APNIC

ARIN There is no special assignment policy with respect to mobile terminals.

LACNIC RIPE NCC

[TOP]

2.5.4 Web Hosting

RIR Policy

AfriNIC APNIC

ARIN Name based web hosting is strongly encouraged where feasible.

LACNIC RIPE NCC

[TOP]

2.5.5 Network Address Translation (NAT)

RIR Policy

AfriNIC The use of NAT is neither encouraged nor discussed during the request

APNIC process.

ARIN LACNIC RIPE NCC

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2.5.6 RFC1918 Private Address Space

RIR Policy

AfriNIC

APNIC

ARIN LACNIC For private networks that will never be connected to the Internet, the requestor is made aware of the IPv4 address space reserved for use in

RIPE RFC1918.

[TOP]

NCC

3. IPv6

3.1 Initial Allocation

RIR	Category	Policy	Comment
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Size /32.

a) be an LIR; b) not be an end site; c) show a detailed plan to provide IPv6 connectivity to organizations in the AfriNIC region. d) show a reasonable plan

AfriNIC Eligibility

for making /48 IPv6 assignments to end sites in the AfriNIC region within twelve months. The LIR should also plan to announce the allocation as a single aggregated block in the inter-domain routing system within twelve months.

Period Up to 2 years.

ARIN Size /32. Organisations may qualify for

a) Be an LIR; b) not be an end site; c) Plan to provide IPv6 connectivity to organisations to which it will assign IPv6 address space, by advertising that connectivity through its single aggregated address allocation; and d) Be an existing, known ISP in the ARIN region or have a plan for making at least 200 /48 assignments to other organisations within five years.

an initial allocation greater than /32 by submitting documentation that reasonably justifies the request.

Period

Eligibility

For up to five years.

Size /32

a) Be an LIR; b) not be an end

connectivity to organisations to which it will assign /48s, by advertising that connectivity through its single aggregated address allocation; d) have a plan for making at least 200 /48 assignments to other

site; c) plan to provide IPv6

organisations within two years.

In addition, APNIC will make allocations to 'closed' networks if they meet all other criteria. APNIC can make allocation based on existing IPv4 network infrastructure

For up to two years.

LACNIC Size /32.

Period

'IPv6 Address Allocation and Assignment Policy' document. Organisations may qualify for an initial allocation greater than /32 by submitting documentation that reasonably justifies the request.

Allocations consistent with

the globally co-ordinated

Considers IPv4 deployment as one of the means of justifying a larger initial allocation.

Eligibility

a) Be a LIR or an ISP; b) not be an end site (End User); c) document a detailed plan for the services and IPv6 connectivity to be offered to other organisations (clients); d) announce a single block in the Internet inter-domain routing system, aggregating the total IPv6 address allocation

APNIC RIPE NCC

PE Eligibility

received, within a period not longer than 12 months; e) offer IPv6 services to clients physically located within the region covered by LACNIC within a period not longer than 24 months.

Period For up to two years.

[TOP]

3.2 Subsequent Allocations

RIR	Category	Policy	Comment
	Size	Minimum size of next allocation will equal the first allocation size. More can be allocated but justification must be supplied.	Contiguous allocation provided if
AfriNIC APNIC RIPE NCC	Eligibility	ISP/LIR must satisfy the evaluation threshold of past address utilisation in terms of the number of sites in units of /48 assignments. The HD- Ratio of 0.8 is used to determine the utilisation thresholds that justify the allocation of additional addresses.	possible. RFC 3194 defines the HD-Ratio.
	Period	Up to two years.	
	Size	Minimum size of next allocation will equal the first allocation size. More can be allocated but justification must be supplied.	Contiguous allocation provided if
ARIN	Eligibility	ISP/LIR must satisfy the evaluation threshold of past address utilisation in terms of the number of sites in units of /56 assignments. The HD-Ratio of 0.94 is used to determine the utilisation thresholds that justify the allocation of additional addresses.	possible. RFC 3194 defines the HD- Ratio.
	Period	Up to two years.	
LACNIC	Size	Minimum size of next allocation will equal the first allocation size. More can be allocated but justification must be supplied.	Contiguous allocation provided if possible.
	Eligibility	ISP/LIR must satisfy the evaluation threshold of past address utilisation in terms of the	RFC 3194

number of sites in units of /48 assignments. The HD-Ratio of 0.94 is used to determine the utilisation thresholds that justify the allocation of additional addresses.

defines the HD-Ratio.

Period Up to two years.

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3.3 Other Allocations

3.3.1 Micro-allocations for Internal Infrastructure

RIR	Category	Policy	Comment
AfriNIC APNIC	Size	No policy.	
LACNIC RIPE NCC	Eligibility	Not applicable.	
	Size	/48 minimum.	
ARIN	Eligibility	Organisations that currently hold IPv6 allocations may apply for a micro-allocation for internal infrastructure. Applicant must provide technical justification indicating why a separate non-routed block is required. Justification must include why a sub-allocation of currently held IP space cannot be utilized.	These allocations come from specific blocks reserved only for this purpose.

[TOP]

3.4 Assignments by RIRs (Independent/Portable)

3.4.1 Critical Infrastructure

RIR	Category	Policy	Comment
	Definition	No policy.	
AfriNIC	Size	Not applicable.	
	Eligibility	Not applicable.	
	Definition	Root DNS, ccTLD, gTLD, IANA, RIRs, NIRs.	
A DNIIC	Size	/32 maximum.	
APNIC	Eligibility	Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.	
	Definition	Root DNS, ccTLD, gTLD, IANA, RIRs.	
	Size	/48 minimum.	
ARIN	Eligibility	Assignments to critical infrastructure are available only to the actual operators of the network infrastructure performing such functions.	Known as 'micro-allocation' policy.
	Definition	NAPs, Root DNS, ccTLD, gTLD, IANA, RIRs, NIRs.	
LACNIC	Size	/48 minimum, /32 maximum.	
	Eligibility	Micro allocation to critical Internet infrastructure operators only.	
	Definition	Root DNS, Anycasting ccTLD, gTLD.	
	Size	For Root DNS minimum allocation size at time of request. For Anycasting ccTLD/gTLD a /48.	
RIPE NCC	Eligibility	Assignments to critical infrastructure are available only to the actual network infrastructure performing such functions.	Address space for this purpose can be obtained by members or if not a member by submitting a request through an existing LIR.
		If the name server set of a ccTLD or a gTLD without anycasting technology applied would not pass the "IANA Administrative Procedure for Root Zone Name Server Delegation and Glue Data'	

the TLD administrator may receive a single dedicated /48 network prefix for the sole purpose of anycasting name servers, as described in RFC 3258.

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3.4.2 Internet Exchange Points (IXPs)

RIR Comment Category Policy

Size No policy. **AfriNIC**

Eligibility Not applicable.

Size /48 minimum.

APNIC LACNIC

The IXP must have a clear and open policy

Eligibility for others to join and must have at least

three members.

Size /48 minimum.

Exchange point operators must provide ARIN

justification for the allocation, including:

Eligibility connection policy, location, other

participants (minimum of two total), ASN,

and contact information.

Size /64 or /48. Address space for

this purpose can be

RIPE obtained by The IXP must have a clear and open policy NCC submitting a request

Eligibility for others to join and must have at least

three members.

through an existing LIR.

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3.4.3 End Users

RIR Category Policy Comment

AfriNIC Size No policy.

APNIC LACNIC

RIPE

Eligibility Not applicable.

NCC

Size /48 minimum.

a) Not be an IPv6 LIR; and b) ARIN

Qualify for an IPv4 assignment Eligibility or allocation from ARIN under

the IPv4 policy currently in

effect.

These assignments come from a distinctly identified prefix

and are made with a

reservation for growth of at

least a /44.

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3.5 Assignments by LIRs (Aggregatable/Non-Portable)

3.5.1 Dynamic Addressing

Policy RIR Comment

AfriNIC APNIC

LACNIC

ARIN There is currently no specific policy related to dynamic

See addressing. RFC3177.

RIPE NCC

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3.5.2 Mobile Terminals

RIR Policy

AfriNIC APNIC

There is no special assignment policy with respect to mobile terminals. ARIN

LACNIC RIPE NCC

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3.5.3 Web Hosting

RIR Policy

AfriNIC APNIC

ARIN There is no recommendation for IPv6 assignments in support of web hosting

LACNIC at this time.

RIPE NCC

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3.5.4 Network Address Translation (NAT)

RIR Policy

AfriNIC APNIC

ARIN The use of NAT is neither encouraged nor discussed during the request

LACNIC process.

RIPE NCC

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4. Autonomous System Numbers (ASNs)

4.1 Allocations

RIR Policy

APNIC Blocks of ASNs are allocated to NIRs for further distribution to their

members.

AfriNIC

ARIN

LACNIC Not applicable.

RIPE

NCC

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4.2 Assignments

RIR	Category	Policy	Comment
AfriNIC ARIN LACNIC RIPE NCC	Eligibility	Policies for ASN assignments are aligned with the guidelines contained in RFC1930. Verify that a network will have a unique routing policy or that it will be a multihomed site before assigning an ASN.	In RIPE region ASNs cannot be requested directly. An application must be submitted to the RIPE NCC through an existing LIR.
		ASNs may be obtained directly from APNIC as a member or non-member account holder. The ASN obtained directly is portable. ASNs may also be obtained indirectly, through a LIR who 'sponsors' the request. In this event, the ASN is non-portable.	
APNIC	Eligibility	Criteria need to be met in both cases, that is: An organisation is eligible if it a) is multihomed; and b) has a single, defined routing policy that is different from its providers' routing policies. An organisation will also be eligible if it can demonstrate that it will meet the above criteria upon receiving an ASN (or within a reasonably short time thereafter).	

4.2.1 32-bit ASNs

RIR Policy Comment

Commencing 1 January 2007, the RIR will process applications that specifically request 32-bit only AS Numbers and assign such AS numbers as requested by the applicant. In the absence of any specific request for a 32-bit only AS Number, a 16-bit only AS Number will be assigned.

"16-bit only AS Numbers" refers to AS numbers in the range 0

- 65535

AfriNIC ap

ARIN LACNIC RIPE NCC From 1 January 2009 the RIR will process applications that specifically request 16-bit only AS Numbers and assign such AS Numbers as requested by the applicant. In the absence of any specific request for a 16-bit only AS Number, a 32-bit only AS Number will be assigned by the RIR.

"32-bit only AS Numbers" refers to AS Numbers in the range 65,536 - 4,294,967,295

 From 1 January 2010 the RIR will cease to make any distinction between 16-bit only AS Numbers and 32-bit only AS Numbers, and will operate AS Number assignments from an undifferentiated 32-bit AS Number allocation pool.

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5. Database - Registration

RIR	Category	Policy	Comment
	Modification	LIRs are required to register all assignments and sub-allocations.	
AfriNIC	Entry	Can update all assignment and sub- allocation registrations (protection mechanism available). Org object cannot be created or updated by a LIR.	
APNIC	Modification	LIRs required to register all assignments and sub-allocations except infrastructure assignments. Registrations will be stored	

		privately by APNIC unless the custodian wishes them to be made publicly available in the APNIC database.	
	Entry	Can update all assignment and sub- allocation registrations (protection mechanism available).	
ARIN	Modification	Downstream reassignments and reallocations are reported, showing hierarchy and End User assignments.	Not required to register infrastructure assignments.
		Reassignment information for residential customers need not contain the customer's name nor street address.	
	Entry	Can modify all parent data except "org name" and address range. Can modify all child data.	
LACNIC	Modification	Downstream reassignments and reallocations are reported, showing hierarchy and End User assignments.	Not required to register infrastructure assignments.
	Entry	Can modify all parent data except "org name" and address range. Can modify all child data. Users have to authenticate themselves in LACNIC web system.	
RIPE NCC	Modification	LIRs are required to register all assignments and sub-allocations.	
	Entry	Can update all assignment and sub- allocation registrations (protection	

6. Reverse DNS

RIR	Policy	Comment
AfriNIC	Only make delegations on 8-bit boundaries (/16 or /24). Multiple delegations may be requested to cover CIDR prefixes for blocks bigger than a /24	

mechanism available).

APNIC	Provides reverse DNS based on domain objects in the APNIC database. If the delegation is /16 or larger then the authority for the reverse zone, it is delegated to the custodian of the address space.	Policy for "lame delegations" checking established and enforced.
ARIN	Provides reverse DNS for all allocations and assignments in the database with the following exception: For all /16 or shorter prefixes ARIN delegates reverse DNS authority to the registrant.	Policy for "lame delegations" checking established and enforced.
LACNIC	Provides reverse DNS for all parent blocks. Does not provide reverse DNS for reassignments on child blocks if the parent is /16 or greater.	Policy for "lame delegations" checking established and enforced
RIPE NCC	Provides reverse DNS delegation on request. Holders of IPv4 /16 or larger are required to use the RIPE NCCs name server as secondary. Deploys DNSSEC on all the reverse zones.	RIPE NCC verifies RFC1912 compliance.

7. National Internet Registries (NIRs)

RIR	Policy
AfriNIC ARIN RIPE NCC	Not applicable.
APNIC	NIRs operate in Korea, China, Japan, Taiwan, Indonesia and Vietnam. They are not ISPs. They allocate to their members within their economy following APNIC policies. Organisations within those NIR economies may go to either the relevant NIR or APNIC.
LACNIC	NIRs operate in Brazil and Mexico. They are not ISPs. They allocate to their members following LACNIC policies. NIRs are responsible for providing

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8. Policy Development

services within their country.

RIR Policy AfriNIC APNIC ARIN LACNIC RIPE NCC

The policy development process is consensus based, open to anyone to participate and is transparent in archiving all decisions and policies so that they are publicly accessible.

[TOP]

9. Internet Experiments

RIR **Policy** AfriNIC Allocations and assignments of Internet resources for Internet experiments are APNIC available. Such allocations or assignments are made for one year after which RIPE they must be returned. They are intended to support experimental Internet NCC activities. Results of experiments must be made freely available to the public. ARIN will allocate Numbering Resources to entities requiring temporary ARIN Numbering Resources for a fixed period of time under the terms of recognised experimental activity. LACNIC shall make experimental allocations with the aim of encouraging research and development within the region of Latin America and the Caribbean. The experimental allocation shall be for a period of one year, LACNIC renewable for a period of the same duration, with no specified maximum. The results of the experiment must be published on a public website.

[TOP]

10. Documentation Prefix

RIR Policy

A documentation prefix is available to organisations wishing to use examples of Internet resources in educational materials, case studies and other

documentation.

AfriNIC ARIN

LACNIC No policy.

RIPE NCC