

INDIAN REGISTRY FOR INTERNET NAMES AND NUMBERS (IRINN)

IRINN Policy Version 2.0 (revised in 2025)

NIXI

Table of contents

CHAPTERS	PARTICULARS	PAGES
1	Objectives	2
2	Activities	2
3	Internet Resources Management Policy	3
4	IRINN Policy for AS Number Allocation and Transfer	13
5	Fee Structure	14
6	IPv4 Transfers between IRINN accounts or IRINN-RIR accounts	16
APPENDIX		22

CHAPTER 1

1. Objectives

- 1.1 To provide the service of delegating and registering Internet Resources (IPv4, IPv6 & AS Numbers) for the purpose of enabling communications via open system network protocols and to assist in the development and growth of the Internet in India.
- 1.2 To assist the Indian Internet community in the development of procedures, mechanisms, and standards to efficiently delegate Internet Resources as a service to the community as a whole;
- 1.3 To operate in a way that is consistent with regional and global Resource management policies taking into account the local and statutory requirement.
- 1.4 To conduct training and skill development program towards growth and promotion of Internet in the country.
- 1.5 To develop local policies and take public positions in the best interest of the Affiliates.
- 1.6 To create mailing lists for facilitating local knowledge sharing and discuss Internet Number resource policies.
- 1.7 To disseminate information relevant to the Internet communities in the country from global and regional conferences, forums, meetings, etc. through IRINN mailing list/s.

CHAPTER 2

2. Activities

2.1 Primary Activities

The primary activities of IRINN will be the management and fair distribution of

- a) IPv4 Addresses
- b) IPv6 Addresses
- c) AS Numbers

2.2 Secondary Activities

Over and above the primary activities, IRINN will be responsible for the following;

- a) Coordination with global policy makers

- b) Organizing programs towards Internet Resources knowledge proliferation
- c) Organizing Training for LIR/ISPs/Affiliates/Users
- d) Providing a support system.
- e) Provide local WHOIS database
- f) Organize local open policy meetings to carry forward Indian stakeholder views to the regional and global open policy forums.

CHAPTER 3

3. Internet Resources Management Policy

3.1 General Policy

The policies are based on the principles of uniqueness, conservation, aggregation and fairness to facilitate the management of Internet Resources.

- a) All applicants for Internet Resources and existing affiliates of IRINN should follow the rules of this document.
- b) To become an Affiliate, organization must submit their allocation proposal with supporting information (documents like copy of company registration documents, PAN, TIN & TDS registration details, GSTIN, PAN in case of an individual, who is a Resident of India) to justify the requirement.
- c) IRINN evaluates and approves every application as per the current policies and criteria.
- d) From 28 February, 2019, each IRINN account holder is eligible to request and receive a maximum of /23 IPv4 address space from an APNIC 103/8 IPv4 address pool. New companies can obtain some IPv4 address space in the IRINN service region without the need to trade for address space and can make the preparation for the subsequent IPv6 migration. To receive a delegation, they must meet IRINN criteria as specified in this policy. The current minimum delegation size for IPv4 is a /24 (256 addresses).
- e) Minimum delegation size for IPv6 address is /32 for LIRs & /48 for Corporate Affiliates as per APNIC current policies.
- f) Other Internet users shall be provided with the required IP address by the LIR.

3.2 Affiliation Structure:

There shall be two categories of IRINN Affiliates:

- a) Affiliates — Individuals, Body Corporate, Academic Institutions, incorporated or established in India, under the Indian laws, as the case may be, shall become a direct Affiliate of IRINN, provided such organizations do not operate any business similar to a LIR. Affiliates will receive IP resources for their own networks. This is referred as Portable Assignments.
- b) LIR (ISP) Affiliates - A Local Internet Registry (LIR) is an IR that primarily assigns address space to the users of the network services that it provides. LIRs are generally ISPs licensed by the Department of Technology (DoT), Government of India and Data Centre Operations whose customers are primarily end users and possibly other ISPs. LIR

Affiliates will receive IP resources for their own infrastructure and for further distribution to their customers. This is referred as Portable Allocation.

3.3 Affiliation Guidelines;

3.3.1 Procedure of Internet Resource Application

- 3.3.1.1 Applicants should fill online request forms at www.irinn.in.
- 3.3.1.2 Applicants should submit clear, detailed, and truthful request forms, as well as a backbone network topology, pop network topology and present deployments status which are subject to IRINN's inspection. A unique Ticket Number will be generated with the application.
- 3.3.1.3 IRINN will examine the forms within three working days and inform the status to the applicant by email.
- 3.3.1.4 If there is any mistake or incomplete information in the application forms, IRINN will notify the applicants by email. The applicants should correct the mistakes and revert back by email on the same Ticket Number.
- 3.3.1.5 If the number of Internet Resources applied for exceeds the limit of allocation window (Given at the end of Para in Notes), then the applicants should fill the Second Opinion Request Form and submit it to IRINN for consideration. Once approved the applicants will be delegated the Internet Resources by IRINN.
- 3.3.1.6 All new affiliates should submit the Second Opinion Request Form to IRINN for every delegation.
- 3.3.1.7 Affiliates should provide required information to IRINN for registering WHOIS database.
- 3.3.1.8 Affiliates should use MyIRINN portal to register information in IRINN WHOIS database and ensure the information is correct and up-to-date. For any support queries affiliate shall open a Ticket through MYIRINN portal or shall send an e-mail to helpdesk@irinn.in.
- 3.3.1.9 All assignments by affiliates should follow the procedures and regulations mentioned on the IRINN website.
- 3.3.1.10 All requests for address space interalia must be interalia supported by documentation describing:-

- a) the network infrastructure of the organization making the request;
- b) any address space currently held by that organization (including historical address space);
- c) previous assignments made by that organization (including assignments made from historical address allocations); and
- d) the intended use for the address space requested.

3.3.1.11 An allocation or assignment of address space is valid only while the original criteria on which the allocation or assignment was based continue to be valid. An allocation or assignment becomes invalid if it is:

- a) made for a specific purpose that no longer exists; or
- b) based on information that is later found to be false or incomplete.

If an allocation or assignment shall become invalid then the address space must be returned to the appropriate IR.

3.3.2 The rights of Affiliates

3.3.2.1 Affiliates are allowed to submit to IRINN Internet Resource request directly.

3.3.2.2 Affiliates are allowed to submit comments and suggestions to IRINN on the process for application and administration of Internet Resources. IRINN will evaluate the practicability of the suggestions provided and may accept the same.

3.3.2.3 IRINN will provide all relevant information related to the Internet Resources application and administration.

3.3.2.4 Affiliates are allowed to submit changes in policy related to Internet Resources at local, regional and global level for consideration.

3.3.3 The obligations of Affiliates

3.3.3.1 Affiliates are required to observe all applicable rules and regulations, procedures of IRINN and amendments thereof from time-to-time.

3.3.3.2 Affiliates are required to register all relevant information of the delegated Internet Resources in IRINN's WHOIS database and update regularly to ensure that the information is correct and up-to-date.

3.3.3.3 LIRs should guarantee normal functioning of DNS and the Routing table.

3.3.3.4 Subsequent allocation will be provided when an organization (ISPs/LIRs/Ordinary internet users) satisfies the evaluation threshold of past

address utilization in terms of the number of sites in units of/56 assignments for IPv6.

- 3.3.3.5 The HD-Ratio [RFC 3194] is used to determine the utilization thresholds that justify the allocation of additional address as described below.
- 3.3.3.6 The HD-Ratio value of 0.94 is adopted as indicating an acceptable address for justifying the allocation of additional address space.

$$HD = \frac{\text{Log (number of allocated objects)}}{\text{Log (maximum number of allocatable objects)}}$$

- 3.3.3.7 While applying for Internet Resources, affiliates should carry out an accurate evaluation of the exact need beforehand. and submit all required forms and related information. Also, affiliates should fully cooperate with IRINN on all necessary inspections and investigations, and provide required information as stated in para 3.3.1.1 to 3.3.1.11.
- 3.3.3.8 As and when APNIC changes the policies for internet resources management IRINN has to follow the new policies and would have to modify the existing rules. All affiliates are expected to adhere to the changes made on policies from time to time on the lines of the APNIC policy within a stipulated time period.
- 3.3.3.9 Affiliates are strictly prohibited to apply to both APNIC and IRINN for internet resources at the same time. In that event IRINN reserves that right to reject that application.
- 3.3.3.10 To make the timely payments of taxes against all the invoices raised for providing the services.

3.4 The Rights and Obligations of IRINN to the affiliates

3.4.1 The rights of IRINN

3.4.1.1 If the affiliates are not utilizing the assigned Internet Resources in accordance with the projections made at the time of application, IRINN has the right to take back the addresses after giving notice of 30 days.

3.4.1.2 Applicants are not allowed to engage in trading, buying, selling, barter exchange, hoarding/stockpiling, reservations etc. of the Internet Resources. If they are found engaging/engaged in such activities during

any investigation, then all such affiliates are liable to forfeit all the allocated Internet Resources and related rights by IRINN under this Agreement, and will never be allowed to apply to IRINN for assignments again.

3.4.1.3 To claim the payments and taxes against all the invoices raised for providing the services and in case of non-payment, to discontinue the rendering of services as per the defined procedure

3.4.2 The obligations of IRINN

3.4.2.1 IRINN shall keep confidential all the information submitted by the applicants, and not release any information to outsiders without permission from the applicants. However, IRINN will disclose public information of applicants in WHOIS database and share other documents to APNIC and Law enforcement authorities wherever required.

3.4.2.2 IRINN shall respond to applicants' submissions within reasonable time by email.

3.4.2.3 IRINN may consider and accept reasonable opinions and suggestions from the applicants for improvements.

3.5 Rules of IP address Allocation and Assignment

3.5.1 Rules of affiliates assignment

IP addresses will be delegated to customers according to the number of the hosts in use, instead of the bandwidth. The rules for delegation by the number of hosts are as follows:

Total number of internet hosts Quantity of IPv4 addresses assigned (Prefix)

IPv4 Prefix	IPv4 Addresses
/30	2
/29	6
/28	14
/27	30
/26	62
/25	126
/24	254
/23	510
/22	1022

Total number of internet hosts Quantity of IPv6 addresses assigned (Prefix)

IPv6 Address End Site /56 Addresses	
/56	1
/55	2
/54	4
/53	8
/52	16
/51	32
/50	64
/49	128
/48	256
/47	512
/46	1,024
/45	2,048
/44	4,096
/43	8,192
/42	16,384
/41	32,768

IPv6 Address End Site /56 Addresses	
/40	65,536
/39	131,072
/38	262,144
/37	524,288
/36	1,048,576
/35	2,097,152
/34	4,194,304
/33	8,388,608
/32	16,777,216
/31	33,554,432
/30	67,108,864
/29	134,217,728
/28	268,435,456
/27	536,870,912
/26	1,073,741,824
/25	2,147,483,648

3.5.2 Application for Assignment of IP Addresses-Requirements

3.5.2.1 Applicants should submit clear, detailed, and truthful request forms, as well as a backbone network topology, pop network topology, and other related certifications such as receipts for purchase of equipment, purchase order ...etc.), which are subject to IRINN's inspection.

3.5.2.2 All assignments by LIRs should follow the regulations in preceding section 3.5.1.

3.6 Rule for change of ISP/LIR or revised address Allocation

End users should return the IP addresses to LIRs (ISPs) as and when they change ISPs, and they should apply for new IP addresses from new ISPs. Such Internet users, who have obtained IP addresses from IRINN shall continue to use their blocks through the new ISP.

3.7 IP address Migration

3.7.1 Transfer of Affiliation from APNIC to IRINN

3.7.1.1 APNIC allows Indian LIRs to join IRINN in India and to receive address registry services from IRINN (including resource allocation and registration).The details of existing APNIC transfer policy is available at “Operational policies for National Internet Registries in the APNIC region [“http://www.apnic.net/policy/transfer-policy”](http://www.apnic.net/policy/transfer-policy)”.

3.7.1.2 In these cases, management responsibility for the LIR's address space and registration records will be transferred from APNIC to IRINN. The LIR will no longer receive any service from APNIC in relation to the address space received from APNIC.

3.7.1.3 APNIC does not impose a per-address fee for the transfer. Likewise, APNIC does not impose any further charges on the LIR in relation to Internet resources previously allocated to that LIR.

3.7.1.4 If the LIR chooses to maintain its Affiliation with APNIC while

receiving new allocations from IRINN, the LIR may choose whether and when resources are transferred to IRINN.

3.7.1.5 Although an LIR may be an affiliate of both IRINN and APNIC, it may only obtain resource services from one source.

3.7.2 Transfer of Affiliation from IRINN to APNIC

3.7.2.1 IRINN shall freely allow LIR affiliates to join APNIC and to receive all address registry services from APNIC (including resource allocation and registration), wherever this is preferred.

3.7.2.2 In these cases, management responsibility for the LIR's address space and registration records will be transferred from IRINN to APNIC. The LIR will no longer receive any service from IRINN in relation to the address space received from IRINN. iii. The existing address space holdings of the LIR will be transferred to the management of APNIC.

3.7.2.3 IRINN will not impose a per-address fee for the transfer. Likewise, IRINN will not impose any further charges on the LIR in relation to Internet resources previously allocated to that LIR.

3.7.2.4 If the LIR chooses to maintain its Affiliation with IRINN while receiving new allocations from APNIC, the LIR may choose whether and when resources are transferred to APNIC and inform IRINN accordingly.

3.7.2.5 Although an LIR may be an affiliate of both APNIC and IRINN, it shall only obtain resource services from one source.

3.7.2.6 LIR's APNIC Affiliation tier will be assessed at the next Affiliation renewal, based on all their APNIC managed address space (including both the transferred address space and any other address space they have received from APNIC).

This document may be reviewed and **modified as** and when necessary, based on **the recommendations of Affiliates**.

NOTES:

i. **Assignment Window**

In order to apply best current practices and achieve efficient assignments of Internet Resources by the LIRs, IRINN is obliged to set a limit on assignment quantities. LIRs are free to assign Internet Resources if the quantity applied for is within the limit. If not, applicants should fill a Second Opinion Request Form and submit it to IRINN. Once admitted, the LIRs can assign the Internet resources to their customer.

ii. **Second Opinion Request Form**

The applicant should email to helpdesk@irinn.in

iii. **Request forms**

a) ISP Internet Resources Request Form:

All ISP should mandatorily use this form to apply to IRINN for Internet Resources.

The applicant should email to helpdesk@irinn.in

b) Second Opinion Request Form: In the event the request exceeds the allocation window NIR will use the second opinion request form.

iv. **Allocation Window**

In order to administrate effective allocations of Internet Resources by IRINN (National Internet Registry), APNIC will set and Allocation Window. Any requests above IRINN Allocation Window should be forwarded to APNIC to further evaluation.

Chapter 4

4.1 IRINN Policy for AS Number Allocation and Transfer

4.1.1 About AS Number

4.1.1 Autonomous System (AS) is collection of network with the same routing policy, usually under single ownership, trust and administrative control. If LIRs network uses EGP (Exterior Gateway Protocol), BGP (Border Gateway Protocol) or IDRP (OSI Inter-Domain Routing protocol) routing protocols, LIR can request an AS Number.

4.1.2 If your network is a large network or will be a large network and multi-home to different providers, you need an AS Number.

4.1.3 If your network is a small network and only one upstream, you can use static routing or other routing protocols. You don't need an AS Number.

4.1.4 We recommend reading RFC1930 for AS number request.

4.1.2 Conditions of AS number request

4.1.2.1 Multi-homed network to different providers.

4.1.2.2 Fill in AS number request form conscientiously.

4.1.2.3 The AS number must be used in 3 months.

4.1.3 IRINN AS number management

4.1.3.1 IRINN will update APNIC Whois Database before allocating an AS number.

4.1.3.2 IRINN has the right to ask the applicant return the AS number if they have not used that AS number in 3 months since they received the AS number.

4.1.4 IRINN AS Numbers Transfer Policy

The transfer of AS Numbers is permitted within the APNIC/IRINN region and between regions with compatible inter-regional AS Number transfer policies.

No other Regional Internet Registry (RIR) currently has an inter-RIR AS Number transfer policy that would permit the transfer of AS Numbers between regions.

Chapter 5

5.1 Fee Structure

5.1.1 Annual Affiliation fees

Annual Affiliation fee is calculated based on the total address resources held by the affiliate organization at the time of the anniversary of the Affiliation. The annual Affiliation fee shall not be refunded during the Affiliation period of one year, even if the affiliate withdraws its Affiliation or IRINN terminates the Affiliation.

Annual fee for IPv4 and IPv6 components are calculated separately, based on the total address holdings of the affiliate. The annual Affiliation fee is then charged as the greater of these two components.

In case of migration from APNIC to IRINN, no transfer charges shall be levied. The anniversary date for the concerned affiliate as per APNIC records shall be maintained by IRINN. The first invoicing by IRINN to affiliate in case of migration shall be done on the first anniversary date falling after the migration to IRINN.

The applicable taxes shall be charged separately to the applicable annual Affiliation fees. Failure to pay the annual Affiliation fee on time shall result in cancellation of Affiliation.

For further details kindly refer <https://www.irinn.in/servicesBillingProcedureDo>

5.1.1.1 IPv4 Component

The affiliate's total IPv4 address holdings, including that were transferred from APNIC to IRINN and those of IRINN-allocated address space, will be used to assess the IPv4 component of the annual Affiliation fee as follows:

$$\text{FeeIPv4} = 27500 \times 1.35^{(\log_2(\text{Addresses})-8)}$$

5.1.1.2 IPv6 Component

The affiliate's total IPv6 address holdings, including that were transferred from APNIC to IRINN and those of IRINN-allocated address space, will be used to assess the IPv6 component of the annual Affiliation fee as follows:

$$\text{FeeIPv6} = 24199 \times 1.35^{(\log_2(\text{Addresses})-22)}$$

5.1.2 Resource Application Fee

A new affiliate shall be charged with Resource application fee of Rs. 27,500 (Twenty Seven Thousand Five Hundred only/-) plus applicable Taxes. Irrespective of whether the applicant avails the IP resources immediately or later than the period of application, this

application fee will be charged for all new affiliates. The same is not applicable for those affiliates who transfer from APNIC and become a new affiliate of IRINN.

5.2 Substantial change

IRINN registers and delegates Internet resources according to demonstrated need, subject to the ongoing use of the resources as was originally agreed. If IRINN believes the use of those resources has changed substantially since the original delegation, affiliate can only continue to use the resources once they have notified and taken, formal written approval from IRINN.

An example of a substantial change of use would be if the network infrastructure for which the resources were allocated were redesigned, subdivided, or dismantled.

Chapter 6

6 IPv4 Transfers between IRINN accounts or IRINN-RIR accounts

Important: IPv4 addresses delegated cannot be transferred for a minimum of five years after the original delegation date.

6.1 Current IRINN account holders who wish to transfer Internet resources to a third party must follow the IRINN transfer, merger, acquisition, and takeover policy.

- Before a transfer occurs, the account holder must declare their intention to transfer the resources and get approval from IRINN.
- Transfers that do not meet the requirements of this policy will not be registered by IRINN and will result in the revocation of the resources under the terms of the original account holder agreement and in accordance with relevant resource management guidelines.

IRINN account holders must inform IRINN for one or both of the following changes:

6.1.1 Changes in the business structure of the account holder

Transfers of this type can include all Internet resources (IP address and AS Numbers) and are usually caused by merger or acquisition, organizational restructure, or changes in corporate control such as share ownership.

6.1.2 Transfers of unused IPv4 address space under Section 3 or 4 of the IRINN transfer, merger, acquisition, and takeover policy

Transfers of this type only involve IPv4 address space, and such transfers can be within the IRINN region or to and from account holders in other Regional Internet Registry (RIR) regions. The counterpart RIR must have a suitable Inter-RIR transfer policy that permits transfer to/from the IRINN region.

6.2 Transfers due to changes in the business structure

6.2.1 How to lodge your transfer request

- You must lodge your request in writing by emailing helpdesk@irinn.in with the account name included in the email subject.
- A Corporate Contact from either the source account or recipient account should lodge the email. (If a non-Corporate Contact lodges the request, IRINN will request the authorization in writing from the account's Corporate Contact).

- **The email must include:**
 - A full official legal name of all the entities involved
 - A clear indication of the source and recipient entities
 - A list of the Internet number resources to be transferred
 - A description of the reason for the transfer
 - Relevant legal documents to support the reasons for transfer. Such documents must be issued by the governing authorities from the economies where the entities reside.

6.3 IPv4 transfers within IRINN region

IRINN recognizes the transfer of IPv4 addresses following the criteria set out in Section 3 of the IRINN transfer, merger, acquisition, and takeover policy.

6.3.1 How to lodge your transfer request

- Only current IRINN account holders are eligible to transfer IPv4 resources.
- The source account must use the forms in MyIRINN and initiate the transfer.
- The recipient account can then accept or reject the transfer before the request is sent to IRINN for approval.
 - Any recipient account may request IRINN to [pre-approve](#) their need for IPv4 address space without a confirmed source.
- There is a fee associated with this type of transfer. Inter RIR IPv4 transfers

IRINN recognizes inter-RIR transfers following the criteria set out in Section 4 of the IRINN transfer, merger, acquisition, and takeover policy.

6.3.2 How to lodge your transfer request

- If the source entity is a current IRINN account holder:
 - The account holder must contact IRINN by completing the [template](#) and emailing it to helpdesk@irinn.in
- If the recipient entity is a current IRINN account holder:
 - The source account of the other RIR will contact the respective RIR
 - IRINN will contact the recipient account to provide justification when IRINN has received the transferred request from the other RIR

6.4 IPv4 transfer fees

All IPv4 address transfers are subject to a transfer fee. This fee does not apply to transfers that are a result of a merger, acquisition, or takeover. The fee will also not apply to transfers under the historical resource transfer policy.

A 20% transfer fee is charged according to the size of the block that is being transferred.

For example, the transfer fee for a:

- /24 at INR 27,500 = INR 5,500 + applicable tax
- /23 at INR 37,125 = INR 7425 + applicable tax

You can use the fee calculator to work out what the transfer fee will be.

Please note, this fee is charged when the transfer takes place and must be paid before the transfer is processed.

6.4.1 Who will pay the transfer fee:

- For a transfer between IRINN Affiliates, the receiver will be charged the transfer fee.
- For a transfer from a member of another RIR to an IRINN Affiliate, the IRINN Affiliate will be charged the transfer fee.
- For a transfer from an IRINN Affiliate to a member of any RIR, the IRINN Affiliate will be charged the transfer fee.

6.5 Important information to note

6.5.1 If the transfer involves unclaimed historical resources:

- IRINN will only process unclaimed historical resources within the resource pool managed by IRINN.
- Unclaimed resources must be claimed first.
- Claimed historical resources can only be placed into a current IRINN Affiliate account under the policy outlined in Section 4 of the [IRINN transfer, merger, acquisition, and takeover policy](#).

6.6 Outdated contacts information

- If the contacts for the IRINN account are no longer valid, or the legal entity for the account holder does not exist, by the time IRINN is informed of the changes or transfer, the receiving entity must also provide legal documents issued by the governing authority in that economy to support the change or transfer.

6.7 IRINN Affiliation and fees

For transfers within the IRINN region (with the exception of historical resource transfers), both the source and recipient entities must hold current IRINN accounts to allow successful completion of transfer and resource registrations.

- Initial fees for all new IRINN accounts receiving a transfer will be subject to a one-time fee.

6.7.1 Disclosure of full, true, and correct transfer information

- When assessing transfer requests, IRINN requires disclosure of full, true, and correct transfer information held by all the entities in question.
- IRINN will rely upon the information lodged in order to register the transfer. IRINN reserves the right to revoke the resources transferred if the information is later found to be wrong.

6.8 Any questions?

If you have any question about these issues, the Affiliation status of your company, or the status of any resources delegated by IRINN, please contact [Helpdesk](#).

Annexure 1

IRINN transfer, merger, acquisition and takeover policy

About this document

This document describes current IRINN policies for the transfer of resources. This document should be read in conjunction with other IRINN Policy.

Table of contents

1. Introduction
2. Transfers of IPv4 addresses
 - 2.1 Conditions on the IPv4 address block
 - 2.2 Conditions on source of the transfer
 - 2.3 Conditions on recipient of the transfer
3. Inter-RIR IPv4 address transfers
 - 3.1 Conditions on the space to be transferred
 - 3.2 Conditions on the source of the transfer
 - 3.3 Conditions on the recipient of the transfer
4. Transfer of historical Internet resources
 - 4.1 Application of this policy is optional
 - 4.2 Transfer procedure
 - 4.3 Policies applicable to transferred resources
5. Mergers, acquisitions, and takeovers of—Affiliate organizations
 - 5.1 Updating registration details
 - 5.2 Effect on Affiliation agreement
 - 5.3 Consequences for allocations
 - 5.4 Closure of Affiliate organizations

1. Introduction

IRINN recognizes there will be situations where IPv4 resources may be transferred between:

- Current IRINN account holders
- Current IRINN account holders and organizations in other RIR regions(s), NIR regions(s)
- Holders of historical IPv4 addresses without an IRINN account to current IRINN Affiliates
- Organizations through a merger, acquisition, or takeover.

The policies in this document ensure that all transfers of IPv4 address space are accurately reflected in the IRINN Whois Database. This ensures the integrity of the network and an accurate description of the current state of address distribution.

2. Transfers of IPv4 addresses between IRINN account holders

IRINN will process and record IPv4 address transfer requests between current IRINN account holders subject to the following conditions.

2.1 Conditions on the space to be transferred The minimum transfer size is a /24.

The address block must be:

- In the range of addresses administered by IRINN
- Allocated or assigned to a current IRINN account holder
- The address block will be subject to all current IRINN policies from the time of transfer.

2.2 Conditions on source of the transfer

The source entity must be the currently registered holder of the IPv4 address resources, and not be involved in any dispute as to the status of those resources.

2.3 Conditions on recipient of the transfer

The recipient entity will be subject to current IRINN policies.

Recipients that do not already hold IPv4 resource must demonstrate a detailed plan for the use of the transferred resource within 24 months.

Recipients that already hold IPv4 resources must:

- Demonstrate a detailed plan for the use of the transferred resource within 24 months,
- Show past usage rate, and
- Provide evidence of compliance with IRINN policies with respect to past delegations. IRINN will maintain a public log of all transfers made under this policy at APNIC database.

3. Inter-RIR IPv4 address transfers

APNIC will recognize inter-RIR IPv4 address transfers only when the counterpart RIR has an inter- RIR transfer policy that permits the transfer of address space between APNIC and its own region.

IRINN will process and record IPv4 address transfer requests between current IRINN account holders and organizations in other RIR regions subject to the following conditions.

3.1 Conditions on the space to be transferred

The minimum transfer size is stipulated in Section 2.1 of this policy. The IPv4 address space should be under the management of the RIR at which the transfer source holds an account and the authentic holder of the space should match with the source without any disputes.

3.2 Conditions on the source of the transfer

The conditions on the source of the transfer will be defined by the RIR where the source organization holds an account. This means:

- Where the source is in another region, the conditions on the source as defined in the counterpart RIR's transfer policy at the time of the transfer will apply.

3.3 Conditions on the recipient of the transfer

The conditions on the recipient of the transfer will be defined by the RIR where the recipient organization holds an account. This means:

- For transfers to an IRINN recipient, the conditions defined in Section 2.3 will apply.
- Where the recipient is in another region, the conditions on the recipient as defined in the counterpart RIR's transfer policy at the time of the transfer will apply.

4. Transfer of historical Internet resources

4.1 Application of this policy is optional

If historical resources are transferred to an IRINN member, there is the option to make the transfer under the conditions described in this policy. Transfers of Internet resources to current IRINN account holders are purely optional.

4.2 Transfer procedure

All transfers of historical resources to current IRINN account holders made under this policy are recognized and registered by IRINN. IRINN does not require any technical review or approval of the resource's current use to approve the transfer. In addition, IRINN does not review any agreements between the parties to a transfer and does not exert any control over the type of agreement between the parties.

To transfer historical resources, the following steps take place:

- The IRINN Affiliate submits the Historical transfer application form
- IRINN verifies the existing holder of the resources
- The existing holder of the resources provides documents confirming the transfer to the IRINN Affiliate
- IRINN transfers the resources to the IRINN member's account.

4.3 Policies applicable to transferred resources

All resources transferred under this policy are subject to the provisions of all normal address management policies. In particular, future address requests from the Affiliate must document the use of transferred resources as a part of the member's current resource holdings.

5. Mergers, acquisitions, and takeovers of Affiliate Organizations

5.1 Updating registration details

If an Affiliate organization changes ownership (due to a merger, sale, or takeover), then the new entity must register any changes to its network usage and contact personnel. If the effect of the ownership change is that the Affiliate organizations changes name, then the Affiliate organizations must provide to IRINN relevant legal documentation supporting the name change.

5.2 Effect on Affiliation agreement

If an Affiliate organization changes ownership, then the new entity should advise IRINN of the change. IRINN Affiliation is not transferable from one entity to another; however, if the effect of the ownership change is that the Affiliate organizations becomes a subsidiary of another entity, and the infrastructures of the respective entities remain fully independent, then the Affiliation agreement may continue.

5.3 Consequences for allocations

Following ownership change of an Affiliate, IRINN will review the status of any allocations that are held by the new entity or entities, with regard to the practical effect on their infrastructures.

If the practical effect of ownership change is that the infrastructures are merged, then IRINN will not continue to make separate allocations to both. This situation will invalidate the Affiliation agreement of the Affiliate organizations that is effectively subsumed.

When assessing the status of allocations, IRINN requires full disclosure of all address space held by all of the entities in question. If full disclosure is not made, then IRINN will consider any allocations to be invalid and will require that they be returned.

5.4 Closure of Affiliates' organization

If an Affiliate holding current IRINN resources ceases to provide Internet connectivity services or use internet connectivity services, all of its current resources (this includes IPv4, IPv6 and AS numbers) must be returned to IRINN. It is the responsibility of the Affiliate (or any liquidator or administrator appointed to wind up the member's business) to advise all of its customers that address space will be returned to IRINN, and that renumbering into new address space will be necessary.

In the case that a new Affiliate takes over the business or infrastructure of the closed Affiliate, the existing address space may be transferred to the new Affiliate, however such a transfer is subject to re- examination by IRINN and may be treated as a new address request process.

APPENDIX

a) Uniqueness

Every assignment and allocation of address space must be guaranteed as globally unique. This is an absolute requirement for ensuring that every public host on the Internet can be uniquely identified.

b) Conservation

To maximize the lifetime of the available resource, address space must be distributed according to actual need and for immediate use. Stockpiling address space and maintaining reservations are contrary to this goal. Conservation also implies efficiency. Therefore, all users of address space should adopt techniques such as Variable Length Subnet Masking (VLSM) and appropriate technologies that ensure the address space is not used wastefully.

c) Aggregation

Wherever possible, address space should be distributed in a hierarchical manner, according to the topology of network infrastructure. This is necessary to permit the aggregation of routing information by network operators, and to limit the expansion of Internet routing tables.

d) No guarantee of contiguous delegations

IRINN will attempt to make any subsequent delegations contiguous with previous delegations but cannot guarantee that this will be possible.

e) Internet Registry

An Internet Registry (IR) is an organization that is responsible for distributing IP address space to its affiliates or customers and for registering those distributions. IRs are classified according to their primary function and territorial scope.

IRs include:

- APNIC and other Regional Internet Registries (RIRs)
- National Internet Registries (NIRs)
- Local Internet Registries (LIRs), unless the specific context of the reference requires otherwise.

i. Regional Internet Registry

Regional Internet Registries (RIRs) are established under the authority of IANA to serve and represent large geographical regions. Their primary role is to manage, distribute, and register public Internet address space within their respective regions. Currently, there are five RIRs: AfriNIC, APNIC, ARIN, LACNIC, and the RIPE NCC although a small number of additional RIRs may be established in the future.

ii. National Internet Registry

A National Internet Registry (NIR) primarily allocates address space to its affiliates or constituents, which are generally LIRs organized at a national level. NIRs are expected to apply their policies and procedures fairly and equitably to all affiliates of their constituency.

The policies in this document apply to NIRs; however, this document does not describe the entire roles and responsibilities of NIRs with respect to their formal relationship with APNIC. Such roles and responsibilities may be described in other documents and agreements, subject to APNIC Document review procedure.

iii. Local Internet Registry

A Local Internet Registry (LIR) is generally an Internet Service Provider (ISP) and may assign address space to its own network infrastructure and to users of its network services. LIR customers may be other "downstream" ISPs, which further assign address space to their own customers.