

Supporting Notes for the European IP Address Space Request Form

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Document ID: ripe-138 Obsoletes: ripe-128 See also: ripe-136, ripe-137

Introduction

To make appropriate assignment decisions, information must be gathered about the organisation, addressing requirements, network infrastructure, current address space usage and the future plans of the end user requesting address space. The European IP Address Space Request Form (ripe-137) is a tool for gathering the information necessary to evaluate the request and to ensure that the same guidelines are applied to each assignment.

This document contains instructions for completing the form consisting of the templates contained in ripe-137. An example of a completed form is given in Section 4.

The policies and procedures to be followed in making IP address space assignment decisions are described in ripe-136, "European Internet Registry Policies and Procedures." Please refer to this document if you have any questions on policy.

As stated in ripe-136, address space assignments are valid as long as the original criteria on which the assignment was based remain true. If an assignment is made for a specific purpose and the purpose no longer exists, the assignment is no longer valid.

1. Instructions for Network Administrators

After completing this form, send it to the Internet Service Provider that gave it to you. Any questions should be referred to them. For detailed instructions, skip to Section 3.



2. Instructions for the Local IR (ISP)

When sending the completed ripe-137 form to the RIPE NCC, all information requested in the first three sections of the form is must be supplied. In some cases, the RIPE NCC will request additional information. The more information you provide, the more easily the hostmasters can understand the end user's network setup, and the faster a decision be made. Therefore, if you have extra information not included in the first three parts of the form, please attach it.

The form should be be sent to the RIPE NCC by the Local IR Provider processing the request, not by the network administrators, nor by another ISP. It should be submitted with e-mail to <hostmaster@ripe.net> as an ASCII text document.

You can use this form to gather information from the end user and to document your IP space assignments. When using this form for your own administrative purposes, you may modify it in to fit your needs. However, a local IR is responsible to gather and maintain the information indicated on the forms for every address space assignment.

3. Instructions for the European IP Address Space Request Form (ripe-137)

I. General Information

We first gather information on the organisation in which the address space will be used.

Overview of Organisation

To assess a user's request, we must understand the structure of the organisation wanting the addresses and in which part of that organisation they would be used. In this section, a description of the organisational structure should be given. Include information on how the addresses will be distributed among the various departments. If the organisation has offices in more than one country, please specify which country will use the address space. Please include details of the parent company, subsidiaries and contact persons.

#[OVERVIEW OF ORGANIZATION TEMPLATE]#

Santa's Workshop Inc. is divided into a Development Division which includes departments for candy cane construction, toy manufacturing and reindeer training; and a Surveillance Division that oversees



investigations of naughty and nice children. The Development Division is located in in Christmastown, and each department in the division has its own subnet. The Surveillance Division is an international operation with numerous branch offices operating around the globe.

Contact Information

The requester template should contain the contact person at the local IR handling the request. The user template is for the organisation that wants the address space. Each template should include the fields listed below. The requester template should also include the registry ID of the local IR (reg-ID).

NOTE: The requester template must contain a valid registry ID.

Contact Information Fields

reg-ID:	The registry's ID number in lower case.
name:	The full name of the contact person; Please don't use titles like
	"Dr." and do not add a dot (".") between names or initials.
organisation:	The full name of the organisation.
country:	The ISO 3166 two letter country code for the country where the
	contact person is located; If you don't know the country code, you
	can fill in the full name of the country (in English).
phone:	The work telephone number of the person listed above; Specify
	the number with + <country code=""> <area code=""/> <telephone num-<="" td=""></telephone></country>
	ber>.
fax:	The fax number of the person above.
e-mail:	e-mail address of the contact person.

#[REQUESTER TEMPLATE]#

reg-id: nn.antarctic name: Johnny B Good organisation: Antarctic Internet Company country: NN (or Northern Nowhere) phone: +12 21 111 2222 fax: +12 21 222 1111 e-mail: jbgood@antarctic.nn

#[USER TEMPLATE]#

name: Santa A Claus organisation: Santa's Workshop Inc. country: *NN* phone: +12 12 122 2121 fax: +12 12 221 1212 e-mail: santa@antarctic.nn

Current Address Space Usage

In this section, please show how the organisation is using all address space that has been assigned to it in the past, and what its future plans are for that space. Do not include information here for the address space they are requesting nor about private address space they may be using.

Include an entry for each physically separate subnet in the network. Subnets are considered to be physically separate if there is an IP router between them.

Current Address Space Usage Fields

Prefix:	The position in the assigned address space at which the							
	addresses in this subnet start.							
Subnet mask:	The subnet mask of each entry.							
Size:	The size of the subnet, which determines the maximum number							
	of network interfaces that can be incorporated in the subnet.							
Addresses Used:	In these three fields, show the current and estimated usage for							
	the next two years. Include interfaces used for hosts, routers,							
	gateways, terminal concentrators, printers and any other							
	machines requiring one or more network interfaces.							
Current:	The number of network interfaces currently used in the subnet.							
1-yr:	The number of network interfaces to be used in one year.							
2-yr:	The number of network interfaces to be used in two years.							
Description:	Used to specify a short but semantically meaningful description							
	of the role of the subnet in the user's organisation.							



#[CURRENT ADDRESS SPACE USAGE TEMPLATE]#

	Addresses Used					
Prefix	Subnet Mask	Size C	urrent	1-yr	2-yr	Description
193.1.193.0	255.255.255.192	64	28	34	60	Candy Cane Dept.
193.1.193.64	255.255.255.224	32	10	21	28	Toy Design
193.1.193.96	255.255.255.224	32	8	13	27	Toy Manufacture
193.1.193.128		128				Unused
193.1.194.0	255.255.254	512	317	429	480	Reindeer Training
193.1.196.0	255.255.255	256	132	200	230	Naughty or Nice
		1024	495	697	825	Totals



II. The Request

Information supplied in the request overview templates helps to evaluate and process your request. It will be kept in confidence and is for internal use only. The information will **not** be entered into the RIPE Network Management Database.

request-size:	The number of addresses being requested.				
addresses-immediate:	The number of addresses that will be used immediately				
	following the assignment; In these fields only include the				
	new addresses that the organisation is requesting, not				
	addresses they already have.				
addresses-year-1:	The number to be used within 12 months.				
addresses-year-2:	The number to be used within 24 months.				
subnets-immediate:	The number of subnets that to be immediately.				
subnets-year-1:	The number to be used within 12 months.				
subnets-year-2:	The number to be used within 24 months.				
**inet-connect:	Whether or not the organisation concerned plans to con-				
	nect to the Internet. Please use the option that most				
	closely describes the position of the organisation: Will				
	never connect; Already connected through <provider< td=""></provider<>				
	name>; Plan to connect <date> <provider name=""></provider></date>				
country-net:	The ISO 3166 two letter country code of the country				
	where the network is located. For international enter-				
	prises, specify the country in which the network that will				
	use the addresses is located.				
private-considered:	Has the requester considered using private address				
	space for the organisation instead of, or in addition to, a				
	public IP address; "Yes" or "no" is sufficient. More infor-				
	mation is welcome.				
request-refused:	If the organisation has had a request refused in the past,				
	please give the name of the provider that refused the				
	request and an explanation for the refusal.				
PI-requested:	"Yes" if address space requested is provider indepen-				
	dent; "No" otherwise. (see ripe-136)				
address-space-returned:	If the user is returning any address space, specify the				
	range of addresses that will be returned, to whom and				
	before what date. Use the following format: <x.x.x< td=""></x.x.x<>				
	x.x.x.x> to <name> before <yymmdd></yymmdd></name>				



**NOTE: Prior to assigning address space, it is essential to know if the end user requesting address space is already connected to the Internet. If so, then the selection of appropriate address space for this user may depend on which provider currently supplies connectivity. If the user is not connected, but is planning to be, this should also be taken into account. This information is essential if the conservation and aggregation goals of the public address space distribution are to be met. If the organisation is not planning to connect to the internet in the near future, please consider the recommendations in "Address Allocation for Private Internets" (RFC1918).

#[REQUEST OVERVIEW TEMPLATE]#

request-size: 256 addresses-immediate: 120 addresses-year-1: 171 addresses-year-2: 202 subnets-immediate: 6 subnets-year-1: 7 subnets-year-2: 7 inet-connect: Already connected through Antarctic Internet Company country-net: NN private-considered: yes request-refused: yes, by Antarctic Inet because we believe reindeer can fly. PI-requested: no address-space-returned: 192.0.2.0 - 192.0.2.255 to Antarctic Inet on 960623

Addressing Plan

In this section, specify how the organisation plans to use the requested addresses. Only include information about the public address space being requested. Use of private address need not be described. Like the "current address space usage" template, the addressing plan is a table in which every subnet is specified.

Include an entry for each physically separate subnet in the network. To conserve address space, the start positions of the subnets should be selected to minimise padding in the address space. In the example bellow, we arrange the rows in decreasing order of the Size fields to achieve an optimal packing of the address space. The size of every valid request for address space will be the sum of all sizes of the subnets specified in the addressing plan.



Addressing Plan Fields

Relative Prefix:	The relative position in the assigned address space at which the addresses for this subnet will start. The relative position of the first subnet is always 0.0.0.0. For each subsequent subnet, the start position is selected to allow for the total number of hosts in the Size fields of the subnets which precede it.
Subnet mask:	The subnet mask of each entry.
Size:	The size of the subnet, which determines the maximum number
	of network interfaces that can be used in the subnet. This must be a power of two.
Addresses Used:	In these three fields, show the planned usage of the requested address space for the next two years. Include interfaces that will
	be used for hosts, routers, gateways, terminal concentrators,
	printers and any other machines requiring one or more network interfaces.
Immediate:	The number of network interfaces to be used immediately follow- ing the assignment.
1-yr:	The number of interfaces to be used in 12 months.
2-yr:	The number of interfaces to be used in 24 months.
Description:	Specify a short but semantically meaningful description of the role of the subnet in the user's organisation.

#[ADDRESSING PLAN TEMPLATE]#

Relative			Addre	sses Us	sed	
Prefix#	Subnet Mask	Size	Immediate	lyr	2yr	Description
0.0.0.0	255.255.255.128	128	80	95	100	Toy Design
0.0.0.128	255.255.255.224	32	12	17	25	Toy Manufacture
0.0.0.160	255.255.255.224	32	0	15	28	Elf Personnel
0.0.0.192	255.255.255.240	16	7	8	10	Naughty or Nice North
0.0.0.208	255.255.255.240	16	10	14	14	Naughty or Nice South
0.0.0.224	255.255.255.240	16	10	12	12	Naughty or Nice East
0.0.0.240	255.255.255.240	16	8	10	13	Naughty or Nice West
		256	120	171	202	Totals



III. Database Information

Network Template

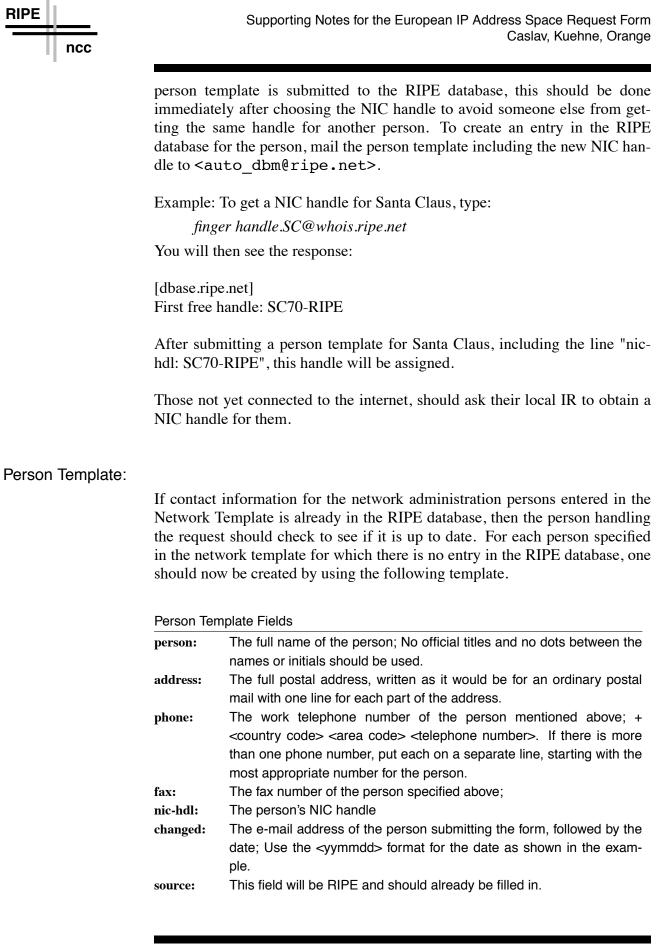
This is the information that **will** be entered in the RIPE database about the organisation requesting the address space. To obtain practical information on using the RIPE database, try:

whois -h whois.ripe.net help

Network Template Fields

netname:	A concise, descriptive name for the network; The "netname" is used
	for administrative purposes like Internet Registry consistency check-
	ing. Valid characters are capital letters, numbers and dash. Use
	whois to check that the netname is not already in use.
descr:	A short description of the organisation, including the location; The
	full postal address is not needed as this is provided in the person
	template (see below).
country:	The ISO 3166 two letter country code which is most appropriate for
	the organisation; For networks that will cross international bound-
	aries, choose the country in which the administrative contact is
	based. If you don't know the appropriate country code, use the full
	name of the country.
**admin-c:	The NIC handle of the person who is the administrative contact for
	the network; The administrative contact must be someone who is
	physically located at the site of the network. More than one contact
	can be specified by adding more "admin-c" fields.
**tech-c:	The NIC handle of the technical contact person; The technical con-
	tact person does not have to be physically located at the site of the
	network. There can be more than one name specified in multiple
	fields for this template.
changed:	The e-mail address of the person completing this form, followed by
	the date; Specify the date in the <yymmdd> format as shown in the</yymmdd>
50 11 1000	example.
source:	The source of the information. This field will always be RIPE and
	should already be filled in.

****NOTE:** The NIC handle is the unique identifier assigned and used by the Internet Registries to identify persons involved in Internet network administration unambiguously. Each person entered in the database must have an NIC handle. The mechanism to obtain a NIC handle will change (use "whois -h whois.ripe.net help" for more information). Currently, to obtain a handle, one should use the command "finger handle.<initials>@whois.ripe.net" using the person's initials. You will then see the next free NIC handle that can be assigned to the person. Since the handle isn't officially assigned until a





#[NETWORK TEMPLATE]#

netname: XMAS descr: Santa's Workshop Inc. descr: Christmas Toys Manufacturing Facility descr: Northern Nowhere country: NN admin-c: SC12-RIPE tech-c: RR212-RIPE changed: jbgood@antarctic.nn 960412 source: RIPE

#[PERSON TEMPLATE]#

person: Santa Claus address: Santa's Workshop Inc. address: Jingle Bell Lane 12 address: 1224CH Christmastown address: Northern Nowhere phone: +12 12 122 1122 phone: +12 12 122 2211 ext. 1221 fax: +12 12 122 121 nic-handle: SC12-RIPE changed: jbgood@antarctic.nn 960412 source: RIPE

#[PERSON TEMPLATE]#

person: Rudolf R N Reindeer address: Santa's Workshop Inc. address: Jingle Bell Lane 21 address: 1224CH Christmastown address: Northern Nowhere phone: +12 12 122 1111 fax: +12 12 122 2222 nic-handle: RD212-RIPE changed: jbgood@antarctic.nn 960412 source: RIPE

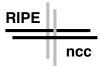


IV. Optional Information

In the assessment of an assignment request, additional information is always useful, especially if there are some special circumstances that affect the request. In this section, please include any information that will help the RIPE NCC make a better decision about the request.

For example, if substantial network expansion is planned, it is useful to include a deployment plan with a list of events (and planned dates) that will lead to the use of the requested addresses. A topological map of the current and planned network infrastructure can also be helpful. The map can be sent to the RIPE NCC by fax.

Information regarding special circumstances, such as the use of old systems or special purpose hardware that affects the request, should be included with the request. In some cases, the RIPE NCC may ask for information about the user's understanding of network planning and management, to be sure the estimates in the addressing plan are realistic.



4. Example of a completed ripe-137 form.

I. General Information

#[OVERVIEW OF ORGANIZATION TEMPLATE]#

Santa's Workshop Inc. is divided into a Development Division which includes departments for candy cane construction, toy manufacturing and reindeer training ; and a Surveillance Division that oversees investigations of naughty and nice children. The Development Division is located in in Christmastown, and each department in the division has its own subnet. The Surveillance Division is an international operation with numerous branch offices operating around the globe.

#[REQUESTER TEMPLATE]#

reg-id: nn.antarctic name: Johnny B Good organisation: Antarctic Internet Company country: NN (or Northern Nowhere) phone: +12 21 111 2222 fax: +12 21 222 1111 e-mail: jbgood@antarctic.nn

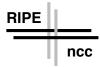
#[USER TEMPLATE]#

name: Santa A Claus organisation: Santa's Workshop Inc. country: NN phone: +12 12 122 2121 fax: +12 12 221 1212 e-mail: santa@antarctic.nn



#[CURRENT ADDRESS SPACE USAGE TEMPLATE]#

Prefix	Subnet Mask	Size C	urrent	1-yr	2-yr	Description
193.1.193.0	255.255.255.192	64	28	34	60	Candy Cane Dept.
193.1.193.64	255.255.255.224	32	10	21	28	Toy Design
193.1.193.96	255.255.255.224	32	8	13	27	Toy Manufacture
193.1.193.128		128				Unused
193.1.194.0	255.255.254	512	317	429	480	Reindeer Training
193.1.196.0	255.255.255	256	132	200	230	Naughty or Nice
		1024	495	697	825	Totals



II. The Request

#[REQUEST OVERVIEW TEMPLATE]#

request-size: 256 addresses-immediate: 120 addresses-year-1: 171 addresses-year-2: 202 subnets-immediate: 6 subnets-year-1: 7 subnets-year-2: 7 inet-connect: Already connected through Antarctic country-net: NN private-considered: yes request-refused: yes - North Pole Inet refused us service because we believe reindeer can fly. PI-requested: no addresses-returned: 192.0.2.0 - 192.0.2.256 to Antarctic Inet on 960623

#[ADDRESSING PLAN]#

Relative	Addresses Used						
Prefix#	Subnet Mask	Size	Immediate	1yr 2yr	Description		
0.0.0.0	255.255.255.128	128	80 93	5 100	Toy Design		
0.0.0.128	255.255.255.224	32	12 1	7 25	Toy Manufacture		
0.0.0.160	255.255.255.224	32	0 1	5 28	Elf Personnel		
0.0.0.192	255.255.255.240	16	7 8	10	Naughty or Nice North		
0.0.0.208	255.255.255.240	16	10 1.	4 14	Naughty or Nice South		
0.0.0.224	255.255.255.240	16	10 12	2 12	Naughty or Nice East		
0.0.0.240	255.255.255.240	16	8 1	0 13	Naughty or Nice West		
		256	120 1	71 202	Totals		

III. Database Information

#[NETWORK TEMPLATE]#

netname: XMAS descr: Santa's Workshop Inc. descr: Christmas Toys Manufacturing Facility descr: Northern Nowhere country: NN admin-c: SC12-RIPE tech-c: RR212-RIPE changed: jbgood@antarctic.nn 960412 source: RIPE

#[PERSON TEMPLATE]#

person: Santa A Claus address: Santa's Workshop Inc. address: Jingle Bell Lane 12 address: 1224CH Christmastown address: Northern Nowhere phone: +12 12 122 1122 phone: +12 12 122 2211 ext. 1221 fax: +12 12 122 121 nic-handle: SC12-RIPE changed: jbgood@antarctic.nn 960412 source: RIPE

#[PERSON TEMPLATE]#

person: Rudolf R N Reindeer address: Santa's Workshop Inc. address: Jingle Bell Lane 21 address: 1224CH Christmastown address: Northern Nowhere phone: +12 12 122 1111 fax: +12 12 122 2222 nic-handle: RD212-RIPE changed: jbgood@antarctic.nn 960412 source: RIPE

#[TEMPLATES END]#