RIPE ncc

Guidelines for Setting up a Local Internet Registry at the RIPE NCC

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ABSTRACT

This document aims to provide the necessary information for those who are considering setting up a Local Internet Registry (LIR) with the RIPE NCC. In this document, first some guidelines are given on which organizations usually set up a Local IR. Further, the steps necessary to set up a Local IR are described. Finally, the RIPE NCC's IP address first assignment and allocation policy is discussed.

1. Introduction

IP addresses for use on the Internet are distributed in a system of hierarchically organized Internet Registries. For Europe, North Africa, and parts of the Middle East, there is a Regional Registry, the RIPE NCC which distributes addresses to "Local Internet Registries" (also called Local IRs, LIRs, or Local Registries) in its region. The Local IRs can assign address space to end users, and to their own network infrastructure.

Any organization which requires IP addresses from the RIPE NCC needs to become a Local Internet Registry. Organizations sometimes set up a Local IR because they have no other means of acquiring address space, or because it is better from the perspective of Internet Routing. In other cases, they can obtain IP addresses from the (upstream) service provider and there is no need to obtain address space from the RIPE NCC directly.

2. When to set up a Local Internet Registry

When deciding whether or not to become a Local Registry, an organization should consider how much address space they expect to need in the future, how important having their own routable block is, and whether they are ready for the extra cost, administrative overhead and responsibility of running a Local Registry. In this section, we offer some guidelines on this issue.

Note that these are not meant to specify who may or may not set up a registry, but as an aid in the decision process. The policy of the RIPE NCC is to leave the decision up to the organizations themselves. Anyone signing the Agreement on the Provision and Use of the RIPE NCC services and promising to operate according to the registry guidelines will be accepted as a Local IR, as long as they have a legal entity located in the RIPE NCC region. For a list of countries in the RIPE NCC region, please refer to:

http://www.ripe.net/lir/registries/indices/index.html

If your country is not on the list, but you think it should be in our region, please contact us. It could be that there are no Local Internet Registries in your country yet, and you are the first one. Please note that only an organization that is a legal entity in the RIPE NCC region can set up a Local Internet Registry with the RIPE NCC.

2.1. Responsibilities of a Local IR

A Local IR receives allocations of blocks of IP address space from the RIPE NCC. The Local IR itself is responsible for the assignments of IP addresses that it makes from these allocated blocks. This includes:

- Making the right assignment decisions following global assignment policies (as described in ripe-185, section 3 and 4).
- Keeping records of the information gathered in the assignment process (as described in ripe-185 section 6.4)
- Storing assignment information in the RIPE Database and keeping this information up to date (as described in ripe-185 section 3)

The RIPE NCC has a consistency checking and auditing activity set up to train Local Registries and help them follow the procedures. This process described in ripe-170, is also to ensure that LIR's are following their responsibilities correctly.

2.2. Costs of operating a Local IR

The direct costs of operating a Local IR, i.e. fees paid to the RIPE NCC for services, are outlined in the 'RIPE NCC Billing Procedure and Fee Schedule 1999' ripe-188. A Local Registry should also expect costs related to the level of expertise staff of a Local IR needs to obtain and keep, and related to the administrative work operating a Local IR. Depending on the size of the Registry's customer base, it might need to have up to one full time staff member only doing Local IR administrative work.

2.3. Address Space

Each new Local IR receives a /19 (8192 addresses) allocation after they send in their first address space request. The registry can announce this block as one route to the rest of the Internet. The LIR can use this block for their internal network and if they're a Provider Registry they can also use it for assignments to customers. After the initial block is used up, the Registry can request a new allocation of a size that matches the growth of their customer base.

2.4. Business Considerations

When changing upstream providers, an organization which does not operate a Local IR will probably have to renumber their networks and return the formerly used address space to the Local IR it was received from. Organizations operating a Local IR do not depend on others for assigning address space to their own or their customers' networks. On the other hand, operating a Local IR takes up considerable amounts of time and financial resources.

2.5. Other Considerations

If an organization already operates a Local IR in the RIPE NCC region or another part of the world and wishes to open another Registry, they will have to provide the RIPE NCC with a valid reason why they need to operate another Local Registry. The RIPE NCC will ask for some extra information and argumentation in this case.

If an organization is part of a large enterprise that already has address space, then the RIPE NCC will need some extra information before it can set up a Local IR. We will need to know why address space from the main headquarters cannot be used for the network, and why it is necessary to receive address space from the RIPE NCC instead (or in addition). Again, extra information will be required in this case.

3. Setting up a Local IR

The process of setting up a Local IR can be roughly divided into 3 steps:

- Establishment of an entry in the Local Internet Registry list
- Agreement to Registry Procedures
- Agreement on the Provision and Use of the RIPE NCC Services & Payment of the first invoice

The steps need to be performed in order.

Please note that much communication is needed between the Local Registry and the RIPE NCC. (For requiring the documents listed below, for setting up the registry and for requesting address space.) Therefore, we really require the Local IR to have at least e-mail connectivity. If you do not have an Internet connection yet, please acquire an (interim) e-mail address before you request to set-up a Local IR. Please list this e-mail address in all your correspondence with the RIPE NCC.

3.1. Establishment of an Entry in the Local Internet Registry List

As a first step, we need to collect some administrative information about the new Local IR such as address & telephone numbers, names of contact persons. The billing information, including your VAT number if your billing address is in the EU, has to be submitted too. Please fill in the form in Appendix A or the online webform and e-mail it to <new-lir@ripe.net> for processing. After we receive the form and the answers to the additional questions we will create an entry for the new registry in the list of Local Internet Registries. After all three steps have been completed, some of the administrative information in this form will be publically accessible on the RIPE NCC web site. For the most part though, the form will only be used internally by the RIPE NCC to keep information about the registry such as address allocations and assignments. Please remember that only registered contacts of the LIR can request address space from the RIPE NCC. Registered contacts are the ones listed as admin-c and tech-c in your registry file.

As soon as we have established an entry for you, you will receive a Registry Identifier which we will use from now on to identify you as a registry and distinguish you from end users. Please see the form bellow.

Note that the information you provide in the template is not stored in the RIPE Database. If you want to change any information about your registry or just want to know about the current contents, please send an E-mail to <hostmaster@ripe.net>. We appreciate it if you help us to keep this information as up to date as possible.

After step 1 is completed, our billing department will send an invoice to the billing address specified by the new Registry. The amount on the invoice has to be paid before the Registry can start requesting address space (though we can continue step 2 & step 3 before receiving the payment).

3.2. Agreement to Registry Procedures

We have to have a clear assurance from you by e-mail that you will abide by the Internet Registry rules. The cur- rent documents you definitely should be familiar with are:

- ripe-185: European Internet Registry Policies and Procedures
- ripe-141: European IP network number applica- tion form
- ripe-142: Supporting notes to ripe-141
- ripe-157: RIPE NCC Database Documentation
- ripe-189: RIPE NCC Database Documentation (Update for v2.2.1 , http://www.ripe.net/docs/ripe-189.html)
- ripe-170 RIPE NCC Consistency and Auditing Activity
- RFC 1918: Address Allocation for Private Internets

There are some documents that we'd like to point you to, since you will probably need them at some time. These are however not mandatory to be familiar with at this moment.

- ripe-181: Representation of IP Routing Policies in a Routing Registry
- ripe-147: European Autonomous System Number Application Form

All of these documents can be obtained at www.ripe.net by following the "Documents" link.

Please confirm by electronic mail, that you have read and understood the above, and will commit to abide to the guidelines as defined in these documents and future guidelines as defined by the RIPE community.

3.3. Agreement on the Provision and Use of the RIPE NCC Services and Paying of Fees

In order to set-up an official contract between the Registry and the RIPE NCC, we will need two signed service agreements from you. The agreement needs to be signed by somebody at the Registry with the power to sign contracts (usually the director). Please include the title of the person signing the contract, as well as the name, location where it was signed and the date when it was signed. Since we will also sign the agreements you should send them by postal mail to us, e-mails or faxes cannot be accepted. Once we receive them, we will also sign them and return one agreement to you.

Currently our address is:

RIPE NCC
Singel 258
1016 AB Amsterdam
The Netherlands

After we have received the signed service agreement, we check whether the invoice we sent earlier has been paid, and if yes, then the new Registry can start receiving services.

The service agreement, ripe-191, is available on our web site at:
http://www.ripe.net/docs/
or on the ftp site at:
ftp://ftp.ripe.net/ripe/docs/

for a postscript or text version.

Please also see the accompanying documents, ripe-176 (Articles of Association) and ripe-173 (General Terms & Conditions) in the same ftp and web directo- ries.

4. RIPE NCC Fees and Billing Procedures

The RIPE NCC charges new registries a one-time "Start-up Fee" as well as a yearly "Service Charge". The Start-up fee is partially used to pay for the LIR training courses, which all new Registries are encouraged to attend. These fees can change from year to year and therefore rather than listing them here, please read ripe-188 (RIPE NCC Billing Procedure and Fee Schedule) in the same web and ftp directories as the above documents.

The yearly fees are based on the size category of the registry. Each registry has a category (for Provider registries it's usually SMALL,MEDIUM or LARGE) based on how many allocations they have received from the RIPE NCC and on the age of the allocations. A new Local Registry starts out with a category of small and remains "SMALL" for the following year if they do not receive any additional allocations in that first year. How these categories are calculated is described in ripe-187 (RIPE NCC Charging Scheme 1999) in the same web and ftp directories as listed above.

A Local Registry is assigned a "minimum" billing category by the RIPE NCC, however a Local Registry can always choose to upgrade itself to a higher category.

There is also a special billing category called "Enterprise" which applies to Local Registries that only assign addresses to their own company's network and not to customers of theirs.

A new Local IR will receive an invoice including the start-up fee and it's yearly fee for this year. The Registry can also choose to pay the fees on a half-yearly or quarterly basis, but there is an extra fee attached to this. The yearly fee will be based on the quarter of the year when the Local IR signs up. So if, for example, a Local Registry signs up with the RIPE NCC in July, they won't have to pay the entire yearly fee for that year, but only half of it. A Registry is billed from the moment that they complete step 1, not from the moment that they start requesting address space. If an organization sets up a Registry but doesn't start requesting address space until months later, they still have to pay for those months. In such a case it is better for the organization to wait with setting up the Registry until they actually need to request address space. Be aware though that most registries are not set up overnight, so please apply well in advance of the operation date. Please consider one month to be a guideline for the completion of your registry. For questions on bills and payments please contact <billing@ripe.net>.

Please note that a Local Registry receives the same kind of service from the RIPE NCC no matter what billing category they are. The reason behind having different billing categories is because larger Local IRs tend to send more requests and generate more work for the RIPE NCC staff. If your organization has a billing address in the European Union, please include your VAT number on the application form.

5. Requesting Address Space for the First Time

After an organization has officially set up a Local Internet Registry (the three steps have been completed) they will receive a message from <new-lir@ripe.net> notifying them that they can start requesting address space from the RIPE NCC. From now on the registry should use the <hostmaster@ripe.net> mailbox for requesting address space, or for IP address related-questions. Please do not send address requests to <new-lir@ripe.net>.

Before we go on to explain how a Local IR can request its first block of address space, let's clarify some of the terms used by the RIPE community:

An allocation is a block of address space that a Local IR receives from the RIPE NCC. The Local IR can announce the entire allocation as one route to the rest of the Internet and uses this block of address space for its customers and it's own infras- tructure.

An assignment is a smaller block of address space that a Local IR assigns to it's customers for their networks, or uses for its own infrastructure. For example, if a Local IR needs a block of 256 addresses for one of it's Points of Presence, we would call this an "assignment". Assignments usually come out of the Registry's allocation.

Assigned address space is actually used to operate networks, whereas allocated address space is held by IRs for future assignments to end users.

To receive your first allocation from the RIPE NCC, send your first request for an assignment. The request might be for an assignment for a customer's network, or for the Registry's own internal infrastructure. Do not mix address space of customers and your own network in your request. Please fill out a ripe-141 form and send this to <hostmaster@ripe.net>. You will need to include your Registry Identifier (the "regid" on the Registry form) at the top of the message. Please always include this regid in all messages sent to the RIPE NCC hostmaster mailbox. The RIPE NCC can only process requests from official Local IRs, so if we receive a message at this mailbox without a "regid", we assume it's from an end-user and reject it.

Also please note that the hostmaster mailbox is ticketized to help us keep track of the requests. When you send in a new request, we will assign a ticket number to it. You should then always use that same ticket number for any messages exchanged about that same request. Every new request needs a different ticket number, so please send new requests without any ticket number attached so we can assign a new one. If there are errors in your first request our syntax checking robot will send you a reply prompting you to adjust your requests. After editing your request, submit it again under the same ticketnumber. Once it is free of major errors you will receive an e-mail saying it has been passed to the hostmasters wait-queu and ready to be processed. For help with the hostmaster auto-mailbox please read "Hostmaster auto-mailbox Help Page" located at: http://www.ripe.net/lir/services/status.html

Your request usually will be handled in about 2 days, depending on the size of the wait-queu. It is possible to check the current status of your request at: http://www.ripe.net/cgi-bin/rttquery

After you have sent in your first request for an address space assignment and a RIPE NCC hostmaster has evaluated, we will allocate a /19 block of addresses (8192 IP addresses) to your Local Registry. To be fair to all Local IRs this amount is the same for each new Registry, (unless it's first assignment is larger than this block). You can announce this prefix to your transit provider.

We will at the same time also make the first assignment for you. This means we will update the database and inform you about the address space we have assigned. We will take the assigned range out of the beginning of your allocated block.

But please note that even though you will now have an allocated block from the RIPE NCC, you cannot make any assignments from this range initially without consulting the RIPE NCC for approval. To make you familiar with the registry procedures and to provide additional support in your start-up phase, we currently follow a "hand-holding" procedure for all new registries.

Each new registry receives an "assignment window" (AW). This AW is initially 0. This means that you can not make any assignment without prior approval from the RIPE NCC.

After the first request, please continue to send all requests for address space to the RIPE NCC for approval. We would like to see a ripe-141 form (European IP Network Number Request Form) completed for every single request for address space that you receive. This applies to requests from your customers as well as for address space you may need for your internal network. We always expect you to include your own comments and evaluation results in every request you send to us. We will then approve the request or recommend the assignment of a different amount of address space. If we approve the assignment, we will send you a message notifying you of this, and you will then have to enter the information about this assignment into the database yourselves. (We only enter the first assignment for you to give you an example, after that, you enter all assignments into the database yourselves)

This procedure will only last for a short period of time until we are confident that you are familiar with the registration procedures. We will then increase your assignment window so that you can make assignments up to certain size yourself. For example if we have seen several requests for /25's and /26's from you, we might raise your assignment window to a /25. This means that you can then assign up to 128 addresses to any customer in a one year period. If you get a customer that needs more than 128 addresses, you would still have to send this larger request to the RIPE NCC for approval.

All of these issues are described in more detail in ripe-185, section 3 and 4.

6. Training Courses

The start-up fee paid by new Local Registries, is used (among other things) to fund the Local IR training courses. This is a one-day course (though it might be expanded to more days in the future) that explains the RIPE database, IP address policies, reverse delegation, the routing registry and other issues. It is only open to Local IRs and is taught by the RIPE NCC staff members. We highly recommend that new Registries send one or two of their staff members to this training course. There is no additional cost for attending this course.

Please see:
http://www.ripe.net/lir/courses/index.html
for information on the location and dates of future training courses.

Appendix A

Please fill in this form and return it to <new-lir@ripe.net>, or fill in the online New Local Internet Registry apply form located at:

http://www.ripe.net/lir/registries/newlir-form.html

Information about how to fill out each field in the application form follows below. Please DO NOT send in this entire document, but only the filled out form itself (between the "cut here" marks). You can find an example of a filled out form at the end of this appendix. In addition to the form, we ask a few general questions. Please also answer these and send them together with the completed form. Please note the the RIPE NCC may also ask for further information about the Registry's plans, or routing set-up.

---------------- cut here --------------

regid:
org:
type:
community:
address:
country:
admin-c:
tech-c:
phone:
fax-no:
e-mail:
remark:
lst-localir:
lst-contrib:
bill-addr:
bill-mail:
bill-ref:
bill-vatno:
bill-proto:
bill-categ:
bill-scheme:
bill-remark:
reg-ack:

Questions:

1. Does the organization already operate a Local Internet Registry in the RIPE NCC region? If yes, please give us the regid(s) of the Registry and a short explanation why an additional Registry needs to be openned.

2. Does the organization have another registry in a different region (APNIC or ARIN region)? If yes, please specify the region and explain why you also need to set up a Local Registry in the RIPE NCC region.

3. Does the organization already use address space? Please list it here. Please only list address space being used for the organization's own internal network, and not address space being used for customers (other than dial-up or web servers). Please include address space for the entire organization, not just this subsidiary. Please explain whether the address space will be returned after the new Registry is set-up.

4. What type of organization is this and what services or products do they provide?

5. What are the main reasons for becoming an LIR, rather than requesting address space from the upstream provider?

6. How much address space does the organization expect to need in the next year or so?

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If at all possible, please send completed forms by electronic mail! Sending in handwritten forms will delay processing considerably!

The fields marked "Published in Registry List" are published by the NCC on http://www.ripe.net/lir/registries/indices/data/ for reference of those looking for a registry.

Any questions about this form should be directed to <new-lir@ripe.net>.

Description of all the individual fields:

Registry Identifier

regid: This string uniquely identifies a Local Registry. The format is <cc>.<name> where <cc> is the ISO3166 countrycode where the registry is located and <name> is a somewhat descriptive identifier unique within the country. If a registry services several countries, please choose the country where the registry has it's main office. Please note that this is only an administrative identifier and is not necessarily associated with your bussiness. Since changing this identifier causes a lot of internal administrative work, we will charge a fee for it.

Mandatory, Single Line Only, Single Attribute per Object, Published in Registry List,

Organization Name

org: A short descriptive name of the organization running the Local Registry. It is used in lists and wherever a short description is appropriate.

Mandatory, Single Line Only, Single Attribute per Object, Published in Registry List,

Registry Type

type: Tells the RIPE NCC whether this is a PROVIDER Registry that will be assigning addresses to customers of theirs, or if this is an ENTERPRISE that will only be assigning addresses within its organization. Please fill in either "ENTERPRISE" or "PROVIDER" in this field.

Mandatory, Single Line Only, Single Attribute per Object, Published in Registry List,

Community Served

community: A short and concise description of the community served by this Local Registry. For service providers something like "The Registry will serve customers of <foo> company, an Internet service provider in countries NN AA BB and CC serving mainly <bar> type customers." is sufficient. Please also indicate whether you are prepared to serve those not buying any other service from you. Use multiple lines for longer text.

Mandatory, Multi-Line Attribute, Published in Registry List,

Postal Address

address: The full postal address of the Local Registry. This should be exactly what is needed to deliver postal mail. It should contain the organization name in a suitable form. Multiple lines are represented by multiple 'address' attributes.

Mandatory, Multi-Line Attribute, Published in Registry List,

Countries Served

country: The countries to which this Registry assigns addresses as a blank separated list of ISO3166 codes.

Mandatory, Single Line Only, Published in Registry List

Administrative Contact

admin-c: A reference to the RIPE database object of the person(s) administratively responsible for the Registry. The preferred form is the full name, followed by the NIC handle* (in brackets).

* Please see below for more information.

Mandatory, Published in Registry List,

Technical Contact

tech-c: A reference to the RIPE database object of the person(s) executing the Registry work. The preferred form is the full name, followed by the NIC handle (in brackets).

* Please see below for more information.

Mandatory, Published in Registry List,

* PLEASE NOTE: We need the administrative and technical contact persons (admin-c and tech-c) mentioned in the Local Registry form registered in the RIPE database with person templates. We would appreciate it if you send in templates for these persons to the database first. (See ripe-157 Section 2.2.1 on creating a new database object)

Telephone Number

phone: The general phone number to be called on Registry matters, If more than one is listed the pre- ferred ones should be listed first. Format is +<countrycode> <number> [ext <extension>]. Extensions should only be mentioned explicitly if they cannot be dialed directly.

Mandatory, Published in Registry List,

Telefax Number

fax-no: The general FAX number to be used for Registry matters, If more than one is listed the pre- ferred ones should be listed first. Format is +<countrycode> <number> [ext <extension>]. Extensions should only be mentioned explicitly if they cannot be dialed directly.

Optional, Published in Registry List,

Electronic Mail Address

e-mail: The general electronic mail address to be used for Registry matters. This has to be in RFC822 format. If there really is no e-mail address yet, specify "none". In this case you will need to notify the RIPE NCC as soon as you do have an e-mail address so we can update it here. When using a temporary e-mail address, please update it by sending us the new address as soon as it is operational.

Mandatory, Published in Registry List,

Remarks

remark: Any useful remarks in free form text.

Optional, Multi-Line Attribute, Published in Registry List,

Local Registries Mailing List

lst-localir: The addresses to be added to the mailing list of all "Local Internet Registries". This list is used to make general announcements. Relevant discussions about LIR issues are held on the lir-wg mailing list (Local IR working group). At least one address is required to be subscribed to the localir mailing list and it is recommended that registries follow the lir-wg as well. We will therefore subscribe the address supplied here to both mailing lists. To change the mailbox subscribed to the localir mailing list, please write to <hostmaster@ripe.net>. To change the mailbox subscribed to the lir-wg or to unsubscribe from this list, please mail <majordomo@ripe.net>.

Mandatory, Not Published,

Contributors Committee Mailing List

lst-contrib: The addresses to be added to the mailing list of the "RIPE NCC General Assembly". This Assembly consists of all organizations contributing to NCC funding and discusses formal aspects of RIPE NCC operation such as the budgets and charging.

Mandatory, Not Published,

Billing Address

bill-addr: This is the full postal address to send billing related information to. It should contain the name of the responsible person.

Mandatory, Multi-Line Attribute, Not Published,

Electronic Billing Address

bill-mail: This is the E-Mail address to send billing related information to.

Mandatory, Not Published,

Billing Reference

bill-ref: This is some text that will be included in any bill for reference by the customer, f.i. purchase order numbers.

Optional, Single Line Only, Single Attribute per Object, Not Published,

VAT Number

bill-vatno: This is the VAT number which is required for billing registries inside the European Union without Value Added Tax. If we do not have this number, Dutch VAT will be billed. If your registry has no billing address in the EU, please write outside EU.

Optional, Single Line Only, Single Attribute per Object, Not Published,

Billing Preference

bill-proto: The RIPE NCC sends all invoices out by invoice. If you state ’E-MAIL’ in this field the RIPE NCC will additionally e-mail the invoice to the bill-mail address. Should you prefer the ASCII format, you can write ’E-MAIL ASCII’ in this field. If you wish to receive the invoice by ’SNAIL-MAIL’ only, please write ’SNAIL-MAIL’.

Optional, Single Line Only, Single Attribute per Object, Not Published

Billing Category

bill-categ: This is the current billing category. All new Local Internet Registries will have the initial billing catagory set top ’SMALL’ Please state ’ENTERPRISE’ if this is an enterprise registry only making assignments within it’s own organization.

Mandatory, Single Line Only, Single Attribute per Object, Published in Registry List,

Billing Scheme

bill-scheme: This is the applicable billing scheme. YEARLY is the normal billing scheme. HALF-YEARLY and QUARTERLY are possible by special prior arrangements, but an extra fee is charged. The string LATE after the scheme indicates that we agreed that invoices due in December can be paid in January. See the billing procedure document 'RIPE NCC Billing Procedure and Fee Schedule' for details of applicable charges etc.

Mandatory, Single Line Only, Single Attribute per Object, Not Published,

Billing Remark

bill-remark: Any useful remarks concerning billing.

Optional, Multi-Line Attribute, Not Published,

Registry Acknowledgements

reg-ack: This controls the verbosity of acknowledgements of address-space requests sent to the registry. The acknowledgements contain information about yur address-space requests such as the assigned ticketnumber and the processing priority. You can choose to receive a 'LONG' acknowledgement, with more detailed explanation if you state 'LONG' in this field. If you opt for a shorter acknowledgement which will contain only the necessary information you may write 'SHORT'.

Optional, Single Line Only, Single Attribute per Object, Not Published

Sample Form

regid: nn.example
org: E.X.Ample Net
type: PROVIDER
community: The registry will serve customers of E.X. Ample networking ltd. an internet service provider in NN AB serving mainly x-type customers. We will also serve those not buying other services from us.
address: E.X. Ample Networking Ltd.
    Registry Sq.
    NN-1822 Internet City
    Northern Nowhere
country: NN AB
admin-c: Ad Ministrator (AM999-RIPE)
tech-c: Joe Technical (JT1234)
phone: +12 345 6789
fax-no: +12 345 9876
e-mail: registry@anet.nn
remark:
lst-localir: registry@anet.nn
lst-contrib: ad.ministrator@anet.nn
bill-addr: E.X. Ample Networking Ltd.
    Ad Ministrator
    Registry Sq.
    NN-1822 Internet City
    Northern Nowhere
bill-mail: ad.ministrator@anet.nn
bill-ref: PO4711
bill-vatno: NN-9876 5432 1 00
bill-proto: E-MAIL ASCII
bill-categ: SMALL
bill-scheme: YEARLY
bill-remark:
reg-ack: LONG

Questions:

1. Does the organization already operate a Local Internet Registry in the RIPE NCC region? If yes, please give us the regid(s) of the Registry and a short explanation why an additional Registry needs to be opened.

Please explain why it is necessary to open up another registry if your company already operates a LIR in the RIPE NCC region.

2. Does the organization have another registry in a different region (APNIC or ARIN region)? If yes, please specify the region and explain why you also need to set up a Local Registry in the RIPE NCC region.

Please explain why it is necessary to open up another registry if your company already operates a LIR in another region.

3. Does the organization already use address space? Please list it here. Please only list address space being used for the organization's own internal network, and not address space being used for customers (other than dial-up or web servers). Please include address space for the entire organization, not just this subsidiary.

193.0.0/19 allocated to sn.ample, out of this 193.0.10/23 is being used for the Northern Nowhere network, which will be returned when the new Registry recieves it's own allocation.

4. What type of organization is this and what services or products do they provide?

Please explain what company this is and what services you are offering. Future plans can be included as well.

5. What are the main reasons for becoming an LIR, rather than requesting address space from the upstream provider?

Please explain why it is important you receive addresses from the RIPE NCC.

6. How much address space does the organization expect to need in the next year?

Please supply us with an estimated deployment plan of the amount of addresses you will be using in one years time.