LaNet IP Address Update/Request Form
(Instructions Attached)

1. Organization

1a. Name of Organization……:
1b. Postal address of Organization..:

2. Technical Contact (POC)

2a. Arin handle (if known)…..…..:
2b. Name (Last, First)……:
2c. Title…..……..:
2d. Postal address…..……..:
2e. Phone Number……..:
2f. E-Mail box……..……..:

Existing IP Address Information

3. Addresses previously assigned by Internic/ARIN…:

Indicate for each network how addresses have been used, to include:
3a. Network Number…..…..…..…..:
3b. Subnet mask ……..:
3c. Number of hosts……:
3d. Number of subnets……..:

4. Addresses previously assigned by LaNet…:

Please submit information for each of your LaNet assigned IP networks in the format of the example below: (See Instructions, Modify and Copy if more than one)

Network …..…..…..…..:204.196.xxx.xxx

Network / Subnet Addr.	Subnet Mask	Host used Current #	Available Current #	Projected used 6mo -	1yr -	Description
204.196.xxx.xxx	255.255.255.xxx	xxx	xxx	xxx	xxx	Xxxxxxx
Totals		xxx	xxx	xxx	xxx	

5. Request for New IP addresses from LaNet

(Complete this section 5 & 6 only if you are requesting New IP addresses)

Please provide the following information.

Host Information

5a. Initial .....:

5b. Within 6 Mon.....:

5c. Within 1 year.....:

Subnet Information

5d. Initial .....:

5e. Within 6 Mon.....:

5f. Within 1 year.....:

6. Addresses Requested and Justification

6a. Number of addresses requested.....:

6b. Additional supporting justification.....:

If requesting new addresses you are required to submit the network topology plan in the format of the example below: (See Instructions, Modify and Copy if more than one)

Network / Subnet Addr.	Subnet Mask	Max Host#	Initial Host#	Projected used 6mo -	1yr -	Description
nnn.nnn.nnn.xxx	255.255.255.xxx	xxx	xxx	xxx	xxx	Xxxxxxx
Totals		xxx	xxx	xxx	xxx	

7. **Network Address Translation:**

7a. Do you currently employ Network Address Translation through the use of a firewall, router or some other means establishing a private network partition in your enterprise?

7b. Are you planning to utilize Network Address Translation (NAT) in you network?
What timeframe do you anticipate?

8. Type of Network

Type .....:

9. Date Form Completed .....:

INSTRUCTIONS FOR REQUESTING INTERNET PROTOCOL (IP) NUMBERS

Completion of the Network template above is required to obtain Internet Protocol (IP) Network Numbers.

In the Subject field of the E-mail message, use the words: IP ADDRESS REQUEST.

Please submit the template via E-mail to LaNet at: lanet-noc@la.net. When LaNet Registration Services receives your completed template you will be notified via E-mail. If E-mail is not available to you, please fax hardcopy to LaNet, and indicate a return fax number for the Point of Contact at your organization.

Contact LaNet via fax at:

(225) 219-4867

PLEASE READ THE FOLLOWING INFORMATION PRIOR TO REQUESTING AN IP NUMBER FROM LaNet:

You are encouraged to use IP numbers reserved for private networks (as set forth in RFC1918) where possible.

NOTE: Your organization will be assigned address space for only an immediate to one (1) year requirement. A prefix longer than /24 may be issued if deemed appropriate.

Section 1. Organization Name and Postal Address.
Provide the name and physical address of the organization that will be utilizing the IP address space.

1a. Name of Organization.

1b. Postal Address

Section 2. Technical Point of Contact (POC).

The technical POC is the person responsible for the technical aspects of maintaining an organization's IP address space. This person should be able to answer any utilization questions LaNet may have.

2a. ARIN-handle (if known).
Each POC entered in the ARIN database is assigned a user handle, a unique

tag consisting of the person's initials and a number. This tag is used in database records to indicate a POC for a network, domain, or other entity.

If you are unsure of the user handle or whether one is assigned, perform a "Lastname, Firstname" search in the WHOIS database. If the POC's user handle is unknown, leave 2a blank.

2b. Name.
Place the last name and the first name of the POC on the same line, separated by a comma as shown:
Lastname, Firstname

EXAMPLES:
Smith, Mary
Netman, John

2c. Title.
List the POC's title, if known.

2d. Postal Address.
Provide the physical address of the POC at the organization requesting IP address space.

2e. Phone Number.
You must the list the complete telephone number of the POC.

2f. E-mail box.
You must provide the E-mail address of the POC at the organization requesting IP address space.

Section 3. Addresses Previously Assigned by Internic/Arin.

Please list all IP addresses previously assigned to your entire organization directly by the Internic or American Registry of Internet Numbers. Please respond to items 3a through 3d with a specific description regarding the utilization of those addresses.

3a. IP Network Address
3b. Subnet mask.
3c. Number of hosts.
3d. Number of subnets.

Section 4. Addresses Previously Assigned by LaNet.

Please list all IP addresses previously assigned to your entire organization by LaNet. (This would include any addresses in the 204.196.X.X range)

Please state exactly how addresses are being used. As stated on the template, you will need to complete the network utilization table in the format shown on the template. This should include the following:

Network / Subnet Address
Subnet Mask
Host used Current # (host addresses currently in use)
Available Current # (host addresses currently not in use)
Projected Used 6mo (total host projected to be in use in 6 months)
Projected Used 6mo (total host projected to be in use in 6 months)
Description (description of network)

Please submit information for each of your LaNet assigned IP networks in the format of the examples below:

Network ……:204.196.207.0 (This is an example only)

Network / Subnet Addr.	Subnet Mask	Host used Current # -	Available Current #	Projected used 6mo -	1yr -	Description
204.196.207.0	255.255.255.0	126	127	200	200	Library
Totals		126	127	200	200	

Network ……:204.196.208.0 (This is an example only)

Network / Subnet Addr.	Subnet Mask	Host used Current # -	Available Current #	Projected used 6mo -	1yr -	Description
204.196.208.0	255.255.255.252	0	1	0	0	Not Used
204.196.208.4	255.255.255.252	1	1	1	1	Web Server
204.196.208.8	255.255.255.248	3	3	5	6	Administration
204.196.208.16	255.255.255.240	7	7	10	12	Accounting
204.196.208.32	255.255.255.224	15	15	20	20	Research
204.196.208.64	255.255.255.192	31	31	50	62	Workstations
204.196.208.128	255.255.255.192	0	62	0	0	Not Used
204.196.208.192	255.255.255.192	0	62	0	0	Not Used
Totals		57	182	86	101	

Section 5. Request for Additional IP addresses from LaNet.

Host Information.

5a. Initially.
Please include here your estimates for the initial size of the network.

5b. & 5c. Within 6mos & 1 year.
Please include here your estimates for the "**total**" size the network is projected to be 6 months and 1 year from now. A "host" is defined as any node or any device, e.g. PC or printer that will be assigned an address from the host portion of the network number.

Subnet Information.

5d. Initially
Include the number of subnets that will be supported by the network initially.

5e. & 5f. Within 6mos & 1 year.
Include the "**total**" number of subnets projected to be supported by the network 6 months and 1 year from now.

Section 6. Number of Addresses Requested and Additional Supporting Documentation.

6a. Number of Addresses Requested.
Please state exactly how many addresses you are requesting.

6b. Additional justification.
Please state exactly how many addresses you are requesting along with any additional justification necessary. As stated on the template, you will need to complete the network topology plan in the format shown on the template.

Your organization is strongly encouraged to subnet where feasible.

Address space is issued based on the utilization of Variable Length Subnet Masking per RFC 2050.

If requesting new addresses you are required to submit the network topology plan in the format of the

examples below:

Network ……:nnn.nnn.nnn.xxx (This is an example only)

Network / Subnet Addr.	Subnet Mask	Max Host#	Initial Host#	Projected used 6mo -	1yr -	Description
nnn.nnn.nnn.0	255.255.255.0	254	100	130	160	Bayou TC
Totals		254	100	130	160	

Network ……:nnn.nnn.nnn.xxx (This is an example only)

Network / Subnet Addr.	Subnet Mask	Max Host#	Initial Host#	Projected used 6mo -	1yr -	Description
nnn.nnn.nnn.0	255.255.255.224	30	0	0	0	Not Used
nnn.nnn.nnn.32	255.255.255.224	30	20	20	25	Satellite 1
nnn.nnn.nnn.64	255.255.255.224	30	15	25	25	Library
nnn.nnn.nnn.96	255.255.255.224	30	8	10	12	Administration
nnn.nnn.nnn.128	255.255.255.192	62	40	50	60	Main Campus
nnn.nnn.nnn.192	255.255.255.240	14	8	10	12	Faculty
nnn.nnn.nnn.208	255.255.255.248	6	3	3	4	MIS
nnn.nnn.nnn.216	255.255.255.248	6	0	0	0	(Spare)
nnn.nnn.nnn.224	255.255.255.224	30	0	0	0	Not Used
Totals		238	94	118	138	

NOTE: This represents one /24 (Class C) using Variable Length Subnet Masking (VLSM).

Section 8. Type of Network.

Networks are characterized as being one of four types: Research, Educational, Government-Non Defense, Government-Defense. Which type is this network?

For further information contact LaNet Registration Services via E-mail at:

lhnet-noc@ lh.net
or via Fax at (225) 219-4867
or by phone at (225) 219-4860

RECOMMENDED READING

Rekhter, Y., Moskowitz. B., Karrenberg, D., de Groot, G.
Address Allocation for Private Internets, IBM Corp., Chrysler Corp., RIPE NCC. February 1996. **RFC 1918**. 9 p.

Hubbard, K., Kosters, M., Conrad, D., Karrenberg, D., Postel, J.
Internet Registry IP Allocation Guidelines ;November 1996. BCP 12. **RFC 2050**. 13 p.

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Requirements for Internet Gateways. Marina DelRey, CA: University of Southern California, Information Sciences Institute. June 1987. **RFC 1009**. 55 p.

Internet Engineering Task Force, Braden, R.T.
Requirements for Internet Hosts -- Communication Layers. Marina delRey, CA: University of Southern California, Information Sciences Institute. October 1989. **RFC 1122**. 116 p.

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Requirements for Internet Hosts -- Application and Support. Marina delRey, CA: University of Southern California, Information Sciences Institute. October 1989. **RFC 1123**. 98 p.

Internet Activities Board. Internet Official Protocol Standards. 1994 March ;**RFC 1600**. 34p.

Postel, J.B. Internet Standard Subnetting Procedure. Stanford, CA: Stanford University. March 1995. **RFC 1780**. Obsoletes RFC1720.

Postel, J.B. Internet Control Message Protocol Marina delRey, CA: University of Southern California, Information Sciences Institute.

September 1981. **RFC 792**. 21 p.

Postel, J.B. Transmission Control Protocol. Marina del Rey, CA: University of Southern California, Information Sciences Institute. September 1981. **RFC 793**. 85 p.

Postel, J.B. User Datagram Protocol. Marina del Rey, CA: University of Southern California, Information Sciences Institute. August 1980 **RFC 768**. 3 p.

Postel, J.B. Internet Protocol. Marina del Rey, CA: University of Southern California, Information Sciences Institute. September 1981. **RFC 791**. 45 p.

Reynolds, J.K. ; Postel, J.B. Assigned Numbers. Marina del Rey, CA: University of Southern California, Information Sciences Institute. October 1994. **RFC 1700**. Obsoletes RFC1340.

INTERNET RESOURCES

Internet Requests for Comments (**RFC**) **(RFC's can be found at this site)**
http://www.cis.ohio-state.edu/htbin/rfc/INDEX.rfc.html

Understanding IP Addressing
http://www.3com.com/nsc/501302s.html

IP Address Subnetting Tutorial
http://www.raphb.net/IPSubnet/