

**NTT Singapore (“NTT-SG”)
IP Justification (“IPJ”) - IP Address Space Administration v1.1
Request for IPv4 and IPv6 Address Space**

In assigning IPv4 and IPv6 address space to Internet subscribers, NTT-SG takes guidance from assignment policies and procedures set forth by the Regional Internet Registries (ARIN, RIPE, APNIC), RFC 2050, and RFC 3177. The NTT-SG IP address public policy may be viewed at <http://www.sg.ntt.com/en/ip-address-public-policy.html>

In order to justify an IP address space assignment, please complete all information requested below. IP addresses will be assigned based on an analysis of your current and projected usage against strict utilization efficiency guidelines as defined by the RIRs, RFC 2050, and RFC 3177.

A complete set of instructions and examples are provided at the end of this document.

Note: If you need additional space for any of the documentation requested below, please provide the information in a separate document.

I. Customer Information				Date (dd/mm/yyyy):	
Please complete this section if you are requesting IPv4 and/or IPv6 address space.					
Company/ Client Name					
Address					
City		Zip			
Technical Contact					
Phone		FAX		E-Mail	
Customer ID					
Type of Internet service connection: (check appropriate services that apply)					
<input type="checkbox"/> Colocation		<input type="checkbox"/> Connectivity		<input type="checkbox"/> Other	
Port ID					

II. Current IPv4 Address Space Utilization				
Please complete this section if you are requesting IPv4 address space.				
See instructions at the end of this document for information on completing this section.				
Network	Size	Assigned By	Assign Date	% in use
<i>Example: 200.22.22.0</i>	<i>/24</i>	<i>AIMNET ISP</i>	<i>5-30-95</i>	<i>80%</i>

Will you be renumbering out of your current space? Yes No

Date when renumbering is expected to be completed:

III. IPv4 Address Space Request

Please complete this section if you are requesting IPv4 addresses.

IPv4 Block Size Requested 4 IP address (/30) 8 IP address (/29) 16 IP address (/28)
 Other ()
Please complete Section IV and the rest information if you select "Other".

Describe your planned usage of the requested IPv4 addresses. Please be concise.

How would you like your space advertised? Statically Routed Customer Advertised BGP

IV. Planned Usage for Requested IPv4 Address Space

Please complete this section if you are requesting IPv4 address space.

Provide detail about projected usage for the IPv4 addresses you are requesting. See the instructions at the end of this document for a detailed example.

Network	Subnet Size	Number of Hosts				Description
		Max	Now	3-mo	6-mo	
<i>Example:</i> 200.22.22.0	255.255.255.0	254	128	150	230	Campus Network
						Totals

V. IPv6 Address Space Request

Please complete this section if you are requesting IPv6 address space.

Prefix length requested

Do you currently have IPv6 space? Yes No

- If you currently have IPv6 address space, please indicate current and planned usage for existing assignments, as well as planned usage for the requested prefix. Include network diagram (section VII).
- If you are requesting more than a single /48, indicate planned usage. Include network diagram.

Network	Prefix	IPv6 Usage Plan				Description
		Max	Now	6-mo	1-yr	
<i>Example:</i> 3ffe:a00::	/48	/48	/64	/52	/48	Network infrastructure

						Totals

VI. Network Diagram

Please complete this section if you are requesting IPv4 and/or IPv6 addresses.
Provide a network topology in the space below or provide a Visio file.

VII. Webhosting

Please complete this section if you are requesting IPv4 addresses.
If you are providing webhosting services, please indicate in section IV the IP addresses currently being used for this purpose and provide a list of hosted domains below. If IP-based hosting is being done, a list of technical reasons why named-based hosting cannot be used must be included.

VIII. Additional Comments

Please return the completed form to your NTT-SG Account Executive or to your NTT-SG Customer Engineer. Failure to provide the requested detail may cause a delay in provisioning your IP Address Space Request.

Customer acknowledgment on the provision of the IP Address and Customer further acknowledge that NTT-SG has explained and informed Customer of the purposes for the collection, use or disclosure of the personal data (as defined in the Personal Data Protection Act 2012) on or before such personal data is collected, used or disclosed and Customer hereby consent to the collection,

use or disclosure of the personal data for the purposes of the assignment of the IP address space by NTT-SG to Customer.

Printed Name		Title	
Signature		Date	

NTTS Internal Use (Comments):

Instructions for IPv4 and IPv6 Address Space Request Form

The Regional Internet Registries (RIR; such as ARIN, RIPE, and APNIC) account for the efficient utilization of all IP addresses allocated to Internet Service Providers for reassignment to customers. All IP address space is assigned to customers and must be routed on the NTT-SG network. Any IP addresses assigned to your organization must be relinquished upon termination of subscriber service.

The information provided in this document will be used by NTT-SG **ONLY** to justify the assignment of IP addresses. The information may also be given to the RIRs if they request it as part of reviewing their allocation and/or assignment to NTT-SG.

Please note: failure to provide the information requested in this form may cause a delay in completing your request. Please be as concise as possible.

If you have any questions while completing this form, please contact your Account Executive or Customer Engineer.

I. Customer Information

All customers should complete all information requested. This information will be included in the registration of the IP address assignment in the RIR/NIR registries.

II. Current IPv4 Address Space Utilization

List all IP addresses assigned to your organization from ALL sources for the region you are requesting space in, not just NTT-SG assigned blocks. For example, if you are requesting IP addresses in Europe, please include all current IP address assignments from RIPE and/or your European Internet providers.

You do not need to include private IP address space.

If you will be renumbering from your current space into the space you are requesting, please indicate so and include the date when renumbering is expected to be completed.

III. IPv4 Address Space Request

IP Block Size Requested may be in CIDR (e.g. /23) or number of IP addresses (e.g. 512).

The planned usage description should be a detailed statement of how the requested space would be used.

IV. Planned Usage for Requested IPv4 Address Space

Please use relative numbers in the Network column, as shown below in the examples. Do not include private or NAT IP addresses.

Subnet Size may be designated as either subnet mask or CIDR notation. Include predicted IP address usage for today, three months, and six months. Indicate the use of each IP address block in the description field.

Ex. 1: Requesting a /22

Network	Subnet Size	Max	Now	3-mo	6-mo	Description
0.0.0.0	255.255.254.0	512	128	256	512	webhosting

0.0.2.0	255.255.255.0	256	32	128	256	customer /30s
0.0.3.0	255.255.255.0	256	64	128	192	infrastructure
		1024	224	512	960	Totals

Ex. 2: Requesting a /24

Network	Subnet Size	Max	Now	3-mo	6-mo	Description
0.0.0.0	/25	128	64	100	128	webhosting
0.0.0.128	/26	64	24	32	64	VoIP customers
0.0.0.192	/26	64	12	24	64	server IPs
		256	100	156	256	Totals

V. IPv6 Address Space Request

Note: This section only needs to be completed by customers requesting IPv6 addresses.

Enter the prefix length requested. This will typically be a /48 unless you plan on reassigning subnets.

Mark whether you currently have IPv6 addresses assigned. If you do not have current IPv6 address space and you are only requesting one /48, you may skip the remainder of this section. If you are requesting more than one /48, please complete the planned usage section and include a network diagram with your request.

If you currently have IPv6 addresses, indicate current and planned usage for existing assignments, as well as planned usage for the requested prefix. Include a network diagram with your request.

VI. Network Diagram

If you are requesting a /25 (128 IP addresses) or more IP address space, please include a network diagram in the space provided or attached in a separate document.

A sample network diagram can be viewed at: https://whois.gin.ntt.net/policy_diagram.gif

VII. Webhosting

This section only needs to be completed if you are providing webhosting services to your customers. Below is a sample of the webhosting documentation requested.

The reason(s) we are not doing name-based hosting for all of our web hosting customers is/are:

- a) Reason1
- b) Reason2
- c) etc.

The domains we are hosting are:

virtual1.com
 virtual2.com
 virtual3.com
 virtual4.com
 etc.

VIII. Additional Information

Include any additional information that may be helpful in justifying your request.