



Allocation policy of IPv6 ranges to the NRENs

CLARA Network Engineering Group
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This document describes the policy adopted by RedCLARA to assign ranges from its IPv6 block to the NRENs.

VERSION MANAGEMENT

This guide outlines the procedure for the NRENs to request and receive a lease of a range from RedCLARA's IPv6 block. When new procedures are required or other changes made, it will be updated accordingly, and the new version release will be recorded in the table below.

Version	Modification	Date	Reviewed by
preliminary	First draft	05-Oct-2006	GT-IPv6 (*)
1.0	Corrections and changes	01-Mar-2007	Eriko Porto

* The GT-IPv6 is the CLARA Technical Forum workgroup established to discuss and provide recommendations for the CLARA-NEG regarding IPv6 infrastructure for RedCLARA. For more information about this workgroup see www.redclara.net.

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1. Introduction

Although it is expected for every NREN to have their own IPv6 block requested directly to LACNIC, the application process may take some time and is important to disseminate the IPv6 culture among the NRENS, mainly the most recent ones which are still in their development phases.

RedCLARA acquired its own block from LACNIC, as described in the NEG document CLARA/NEG/2005-0013 - Implementation of native IPv6 for RedCLARA, and since the /32 block is large enough and the backbone doesn't require many addresses, there is plenty room to allow the allocation from part of this block to the NRENS

This document describes the procedure to request an allocation from RedCLARA, and the policy adopted for the allocation to the NRENS

2. Reserved space and the block size

RedCLARA is assigned the IPv6 address space **2001:1348::/32** from the LACNIC, the **2001:1348:0XXX::/36** range is reserved for internal use, and the **2001:1348:1XXX::/36** range will be set aside and subdivided in 16 blocks of /40-size for allocation to the NRENS, as represented in Table 1.

Table 1 – Ranges reserved for leasing

2001:1348:1XXX::/36	Block Size	NREN assigned
2001:1348:1000::/40	/40	
2001:1348:1100::/40	/40	
2001:1348:1200::/40	/40	
2001:1348:1300::/40	/40	
2001:1348:1400::/40	/40	
2001:1348:1500::/40	/40	
2001:1348:1600::/40	/40	
2001:1348:1700::/40	/40	
2001:1348:1800::/40	/40	
2001:1348:1900::/40	/40	
2001:1348:1A00::/40	/40	
2001:1348:1B00::/40	/40	
2001:1348:1C00::/40	/40	
2001:1348:1D00::/40	/40	
2001:1348:1E00::/40	/40	
2001:1348:1F00::/40	/40	

3. Allocation policy

- The IPv6 range allocation will work as a lease to the NREN, and all NRENS that haven't applied yet for their own IPv6 block from LACNIC may request a lease from RedCLARA.
- The allocation will be of /40-size blocks, from the first to the last of the range in Table 1, and in the sequence of the properly received requests in a First-In-First-Out scheme.
- The lease is for a maximum period of one year from the request approval.
- It is required that each NREN with an allocated range from RedCLARA's block starts to use the IPv6 space in the short term, no longer than 3 months after the endorsement.
- After the implementation of the range in the equipment, the NREN should contact the NEG and the NOC to request IPv6 peering services to RedCLARA

Annex A – Request form template

Below is the approved template for requesting IPv6 blocks to RedCLARA. The applicant NREN must complete the form below and submit it to the NEG for approval.

```
# Plantilla de Solicitud de Bloque y/o Túnel en RedCLARA

# Favor de llenar con la información mas completa posible
# Y enviar como archivo adjunto al coordinador del
# Grupo de Trabajo de IPv6 en CLARA: azael@redes.unam.mx

# NOTA: Esta forma deberá ser llenada por el representante técnico
# de la red nacional

-----
# Información sobre la organización que está solicitando el bloque IPv6

Siglas de la Organización:
Nombre de la Organización:
Dirección Postal:
Ciudad:
Estado:
País:
Código Postal:

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# CONTACTO TÉCNICO

Título:
Nombre (s):
Apellido Paterno:
Apellido Materno:
Puesto:
E-mail:
Teléfono:
Fax:

-----
# JUSTIFICACIÓN

Planeación:

# Si se requiere algún túnel de IPv6 sobre IPv4, es necesario proporcionar
# la siguiente información sobre la dirección IPv4 del equipo remoto hasta
# donde se va a configurar el túnel. Así como el No. de túneles requeridos
# o asignados previamente.

# DIRECCIÓN IPv4 DEL EQUIPO REMOTO
Dirección IPv4: . . .
# TÚNELES A SOLICITAR
Número de túneles:
# TÚNELES ASIGNADOS PREVIAMENTE
Número de túneles:

-----
# Indicar la(s) plataforma(s) (sistemas operativos) o equipo(s)
# de la red nacional desde donde se va a configurar o está configurado
# el/lo(s) túneles.

Plataforma (Sistema Operativo):
Service Pack, Kernel o Parches (Opcional):
Equipo y marca:

-----
E-mail para notificar la asignación:

# Para cualquier duda o aclaración referente a IPV6 en RedCLARA
# escribir al Grupo de Trabajo de IPV6 en CLARA
```

Annex B – Allocation status

By the time of the publishing of this document, two NRENs had already applied and received their respective IPv6 ranges allocation. Table 2 shows the status of these allocations for informative purposes.

Table 2 – NRENs allocation status

2001:1348:1XXX::/36	Block Size	NREN assigned	Date of approval
2001:1348:1000::/40	/40	CEDIA	15-May-2006
2001:1348:1100::/40	/40	RAGIE	15-March-2006
2001:1348:1200::/40	/40		
2001:1348:1300::/40	/40		
2001:1348:1400::/40	/40		
2001:1348:1500::/40	/40		
2001:1348:1600::/40	/40		
2001:1348:1700::/40	/40		
2001:1348:1800::/40	/40		
2001:1348:1900::/40	/40		
2001:1348:1A00::/40	/40		
2001:1348:1B00::/40	/40		
2001:1348:1C00::/40	/40		
2001:1348:1D00::/40	/40		
2001:1348:1E00::/40	/40		
2001:1348:1F00::/40	/40		