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IP Registry

Assignments & Allocations

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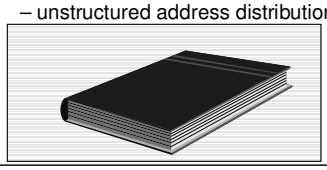
IP Registry Evolution

- Early Days
  - IP Function all by US NIC
  - unstructured address distribution



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- Currently
  - distributed hierarchical registry system
  - Topologically significant allocation via IR's (ISP based not geographical)

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- Registry types
  - Regional
    - APNIC
    - RIPE
    - InterNIC (ARIN ?)
  - Local
    - In Europe Provider and Enterprise
    - Other regions differ

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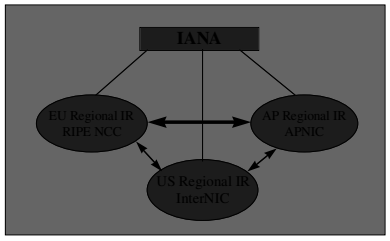
Regional Registry Structure



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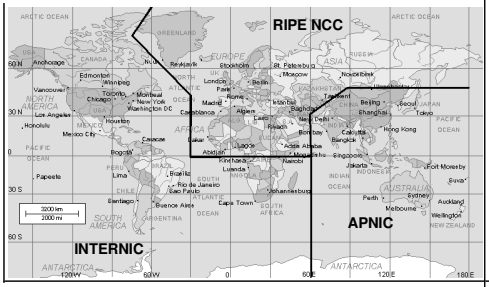
Areas of operation



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Non EU requests

- Whom to contact
  - historical determination
  - If you don't know try the nearest registry and they'll forward the request.

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- InterNIC
  - IP & AS <netreg@internic.net>
  - Inaddr's <hostmaster@internic.net>
  - domains, .org, .net, .com etc. <domreg@internic.net>
- APNIC
  - IP, AS numbers and Inaddr's <hostmaster@apnic.net>

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Goals of the IR system

- Conservation
  - fair distribution of IPv4
  - prevention of stockpiling
- Aggregation
  - hierarchical distribution
  - permits aggregation of routing information
- Registration
  - provision of public registry
  - ensures uniqueness of addresses
  - enables trouble shooting

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Where do I get IP addresses?

Depends who you are.

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Who are you?

- Local Internet Registry
  - Local IR's are the only people who deal directly with the NCC
- End user
  - Go to your upstream LIR

<http://www.ripe.net/lir/registries/LocalIR.html>

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How to apply for addresses.

- The Local IR will help you with forms. If you need to request via the NCC we provide you with forms .

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Do I need to be a Local IR

- Being a Local IR is useful if you need to distribute IP addresses to your customers.
- Being a Local IR is NOT a licence to freely give out address space!!

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How to become a LIR

- check <ftp://ftp.ripe.net/ripe/new-registry/>
  - submit entry for registry list
  - agreement to registry procedures
    - read various documents
  - agreement on provision and use of the RIPE services
- contact <billing @ripe.net> for more information

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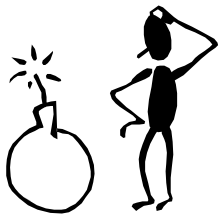
Questions?