RIPE NCC

RIPE Network Coordination Centre

RIPE and the Internet Registry System

NATO Advanced Network Workshop

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Overview

- Introduction to RIPE & the NCC
- Core Activities of the RIPE NCC
- Further Information

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RIPE and the RIPE NCC

an introduction

Overview

- What is RIPE?
  - How does it work?
  - How can you participate?
- What is the RIPE NCC?
  - Why an NCC?
  - Global Context
  - What do we do?

What is RIPE ?

- Reseaux IP Europeans
  - “RIPE” is a collaborative organisation open to all European Internet service providers
- RIPE is
  - service provider forum
  - voluntary participation, no fees
  - works by concensus
  - encourages face to face discussion
  - acts as an “interest group” supporting the EU Internet community.
  - but has NO legal power

RIPE

- RIPE chair <chair@ripe.net>
  - Chair is: Rob Blokzijl (Nikhef)
- How does it work?
  - Working groups
  - Mailing lists
  - Meetings

RIPE Working Groups

- Local Internet Registries (Local IR)
- RIPE Database (RIPE DB)
- IP version 6 (IPv6)
- European Operators Forum (EOF)
- Routing
- Connectivity
- Domain Name System
- MBONE
- NETNEWS Coordination

- RIPE does NOT develop Internet Standards

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Global Context

Worldwide Internet

Technical Development & Standards Body

IETF

Worldwide Operators Forum

IEPG

EU Operators

USA Operators

Operators

NANOG

EOF

Asian Operators

RIPE

APRICOT

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RIPE Meetings

- About RIPE meetings
  - RIPE meets 3 times a year
  - 2.5 day meetings
  - ~ 140 participants - growing!
  - about 100 organisations participate
  - working group meetings, plenary presentations, hallway chats
- **Come to the meetings!**
  - keep up to date with Internet
  - meet others in the business
  - pick up information, tips, ideas
  - influence directions in EU Internet

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RIPE Meetings

- Next meeting info
  http://www.ripe.net/Meetings/Next RIPE Meeting/
- Minutes and agendas from past meetings
  ftp://ftp.ripe.net/ripe/minutes/*
  ftp://ftp.ripe.net/ripe/agenda/*
- Presentations from past meetings
  ftp://ftp.ripe.net/ripe/presentations/*
- Next meeting
  RIPE 27, Dublin Ireland, 21st-23rd May 1997

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What is the RIPE NCC?

- **Network Coordination Centre**
  The RIPE NCC is a coordination and support service for European Internet service providers (ISP's)

Why an NCC?

- too much RIPE work to be done on a voluntary basis
- some activities need continuity
- neutrality and impartiality is important
- contact point inside & outside Europe

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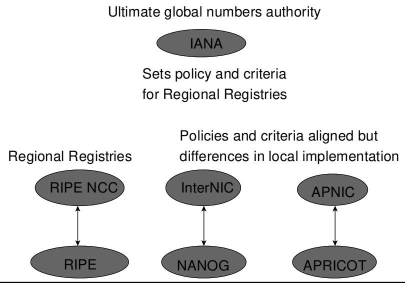
RIPE NCC Global Context



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RIPE NCC History

- Long ago (1989)
  - RIPE participation was increasing
  - RIPE could not continue “coordination” through voluntary effort alone
- RIPE NCC birth - April 1992
  - Legal umbrella TERENA (formerly RARE)
  - Financial contributions from TERENA members, EARN & Eunet - thanks!
- since 1995
  - Financed by model of contributing Local IRs
  - Participative decision making via “Contributors Committee”

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Formal Decision Making

“Consensus” Model

RIPE proposes activity plan

↓

RIPE NCC proposes budget to accompany activity plan (ripe-144 & 146)

↓

Contributors Committee votes on both activities and budget at yearly meeting (<ncc-co@terena.nl> & ripe-145)

TERENA has formal authority for final approval

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Vital Statistics

- Statistics 1992
  - 3 staff members
  - No Local IRs
  - 182,528 hosts in European Internet
  - 7,955 objects in RIPE database (June ‘92)
- Statistics Now
  - 24 staff
  - 620+ participating LIRs
  - 4,046,925 hosts in the European Internet
  - 358,514 objects in the database

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RIPE NCC Activities (1)

- Registration Services
  - IP allocations
  - IP assignments/approvals
  - AS # assignements
- DNS management
  - 193/194/195.in-addr.arpa reverse zones
  - secondary for TLDs
- RIPE database maintenance
  - vital information for operations
  - address space, domains, routes, autonomous systems, person objects

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RIPE NCC Activities (2)

- RIPE support
  - organisational support for RIPE meetings
  - Support to working groups chairs
- Information dissemination
  - mailing list discussions
  - RIPE document store
  - RIPE meetings
  - WWW site
- Representation at meetings
  - formally reporting to IANA for EU registries
  - liaison role at other Internet organisations/meetings

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RIPE NCC Activities (3)

- Routing Registry Maintenance (RR)
  - encouraging ASes register policy in DB
  - consistency check AS and routing data
  - maintaining RR tools
- Local-IR Training Courses
- Coordination
  - European Internet service providers
  - sister organisations - InterNIC, APNIC
  - Internet Assigned Numbers Authority (IANA)

Questions?