RIPE

Réseaux IP Européens

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RIPE

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History of RIPE

• Started in May 1989

• First Meeting:
  − 14 participants
  − Half day

• Protocol Wars:
  − OSI is good
    • Invented by the phone companies
  − TCP/IP is bad
    • Not invented by the phone companies
Recognising that IP networks are growing beyond the LAN's in Europe, and are extending over national and international WAN's in Europe, the RIPE co-ordinating body has been created.

RIPE stands for the "Réseaux IP Européens".

The objective of RIPE is to ensure the necessary administrative and technical co-ordination to allow the operation and expansion of a pan-European IP network.

- RIPE acts as a forum for the exchange of technical information and the creation of expertise on IP networking.
- The area of relevance for RIPE is Europe.
- All parties operating wide area IP networks are encouraged to participate.
- RIPE promotes and co-ordinates interconnection of IP networks within Europe and to other continents.
- RIPE establishes agreement on common network management practices and the operational management of the interconnected networks.
- RIPE serves as a focal point for other common activities of the participants related to IP networking.
- All documents produced by RIPE will be publicly available.
- RIPE is not a network service provider. IP networks collaborating in RIPE remain under the executive authority of their respective organisations.

Amsterdam

29 November 1989
What Does RIPE Do?

✓ Operational Coordination of IP Networks

✗ No Standards Development

✗ No Names Assignment

✗ No Network Operation
About RIPE

• Not a legal entity
• No formal membership
• No votes: consensus is the word

• Chairman:
  – Organises the RIPE Meetings
  – Keeps an eye on the work between RIPE Meetings
  – External liaison

• Real work is done in the Working Groups (WG)
• Sometimes Task Forces (TF)
• Sometimes Birds of a Feather meetings (BOF)
RIPE Meetings

• Twice a year
• Five days long
• WG, TF and BOF sessions
• Plenary sessions
• Other sessions:
  – Workshops
  – Tutorials
  – RIPE NCC Training

✓ OPEN - OPEN - OPEN - OPEN - OPEN
RIPE Meeting Attendance per Organisational Category

**RIPE 55 Amsterdam**
- **Local Internet Registry (LIR)**: 48%
- **Regional Internet Registry (RIR)**: 23%
- **Associations (IXP, Data Centre, ISPA)**: 6%
- **Education**: 6%
- **Government**: 4%
- **Other**: 13%

**RIPE 56 Berlin**
- **Local Internet Registry (LIR)**: 59%
- **Regional Internet Registry (RIR)**: 13%
- **Associations (IXP, Data Centre, ISPA)**: 8%
- **Government**: 3%
- **Education**: 4%
- **Other**: 13%
RIPE Working Groups (1)

- **Address Policy Working Group:**
  Develops policies relating to the management and registration of Internet addresses and routing identifiers (IPv4, IPv6 and Autonomous System (AS) Numbers).

- **Anti-Abuse Working Group:**
  Fighting the problem of network abuse.

- **Cooperation Working Group:**
  Focusing on cooperation between the private and public sectors on Internet matters.

- **Database Working Group:**
  Discussion about the RIPE Database.

- **DNS Working Group:**
  Discussion on current DNS related issues in technology and operations.
RIPE Working Groups (2)

• **ENUM Working Group:**
  The ENUM Working Group discusses developments relating to Internet resource mapping using E.164 telephone numbers as identifiers, commonly known as ENUM.

• **European Internet Exchange (EIX) Working Group:**
  European Internet Exchanges technical issues.

• **IPv6 Working Group:**
  Following the progress of specification and implementation of IPv6.

• **RIPE NCC Services Working Group:**
  Discussion about new and existing RIPE NCC services and evaluating the RIPE NCC's yearly Activity Plan.
RIPE Working Groups (3)

- **Routing Working Group:**
  
  Discussion and information exchange about Routing Registries.

- **Test-Traffic Working Group:**

  Following the progress of the RIPE NCC Test Traffic Measurement (TTM) Service and discussion of data and methods of collection.

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**How to take part:**

- Subscribe to mailing lists
- Participate in RIPE Meetings

✓ OPEN - OPEN - OPEN - OPEN - OPEN
Policy Development Principles

• **Open**
  - Anyone can participate:
    - Including Governments
  - Policy fora
  - Mailing lists

• **Transparent**
  - Mailing list archives
  - Minutes:
    - Policy fora
    - RIR Executive Boards

• **Developed Bottom-Up**
  - Internet community
  - Technology changes
  - Internet Engineering Task Force (IETF)

• **Documented**
  - Formal policy documents
  - Implementation procedures
Policy Development Process

Need

Discuss

Mailing lists
Open Policy Meetings

Consensus

Implement

Put into practice:
• RIPE NCC
• RIPE NCC Members

Evaluate

Effect on industry
Interaction with technology

Structured assessment process

Technology changes
Industry requirements
Address Management Policy

Conservation

- Efficient use of resources
- Allocation based on need

Aggregation
- Limit routing table growth
- Support provider-based routing policies

Registration
- Ensure uniqueness
- Troubleshooting
More Information

- RIPE Meetings (including minutes and webcasts): http://www.ripe.net/ripe/meetings/index.html
- RIPE Mailing Lists/Mailing List archives: http://www.ripe.net/ripe/maillists/index.html
- RIPE Policy Development: http://www.ripe.net/ripe/policies/index.html
Questions?