



RIPE NCC

The Services





From the Activity Plan...

- **Membership Services**
 - “Activities included in membership services relate directly to services provided to the RIPE NCC membership. Services performed in this area are only accessible to established members of the RIPE NCC.”
- **Co-ordination Services**
 - “The activities performed in this area must be accessible to the users of the Internet and the general public to be effective. Their common purpose is to support the coherent operation of the Internet in the RIPE NCC service region.”
- **Information Services**
 - “In 2004 the RIPE NCC will develop simpler and ready-to-use information services. The challenge will be to develop information services that are simple, meaningful and that also maintain scientific credibility.”
- **New Activities**
 - “This area represents those activities that are either unforeseen or cannot be fully specified at the time of writing.”

Who is Who Financial / Admin

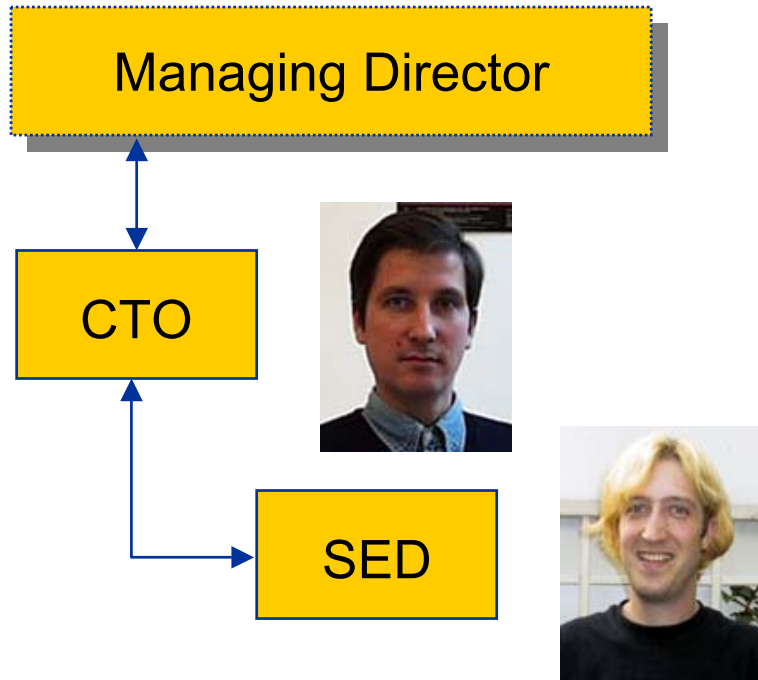
Managing Director

CFO

Frontoffice

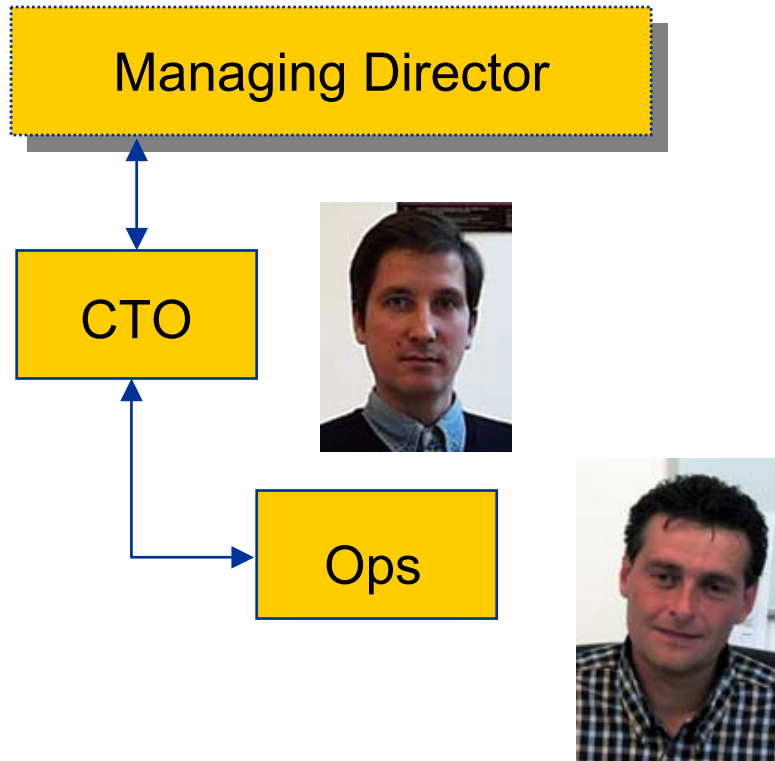


Software Engineering



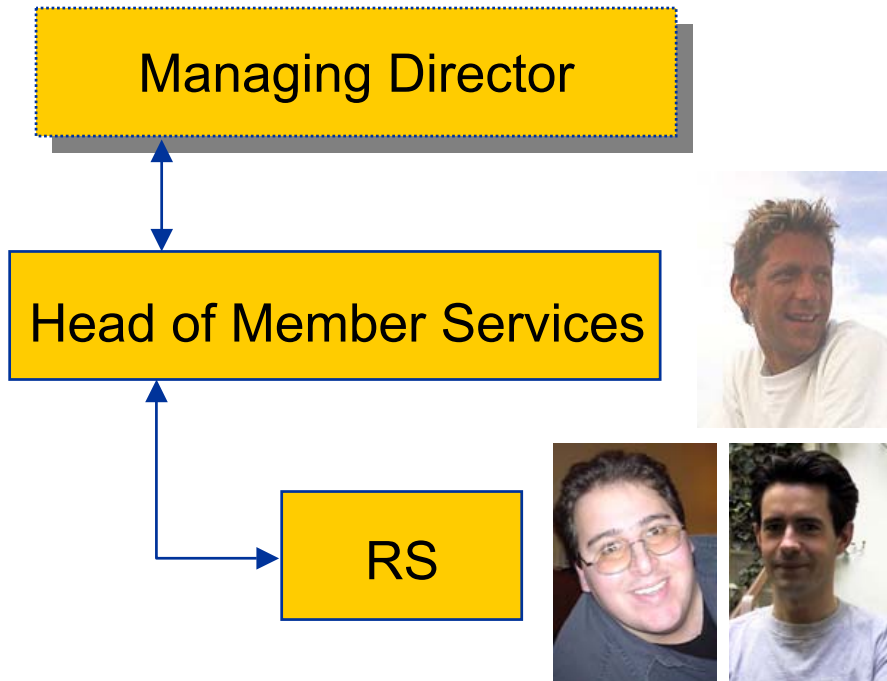
- Organisation Object Type
 - Easy way of mapping resources
 - May be linked to any object type
 - Initial organisations: IANA, RIR, LIR
- X.509 support
 - Update mechanisms updated
 - E-Mail supports S/MIME
 - Webupdates / Syncupdates support client SSL certificates
- NONE authentication deprecated
- Reverse DNS Overhaul
 - Domain Objects are sole source
 - DNS periodically rebuilt from DB
 - Data clean-up completed
- Integration of Services from New Projects

Operations



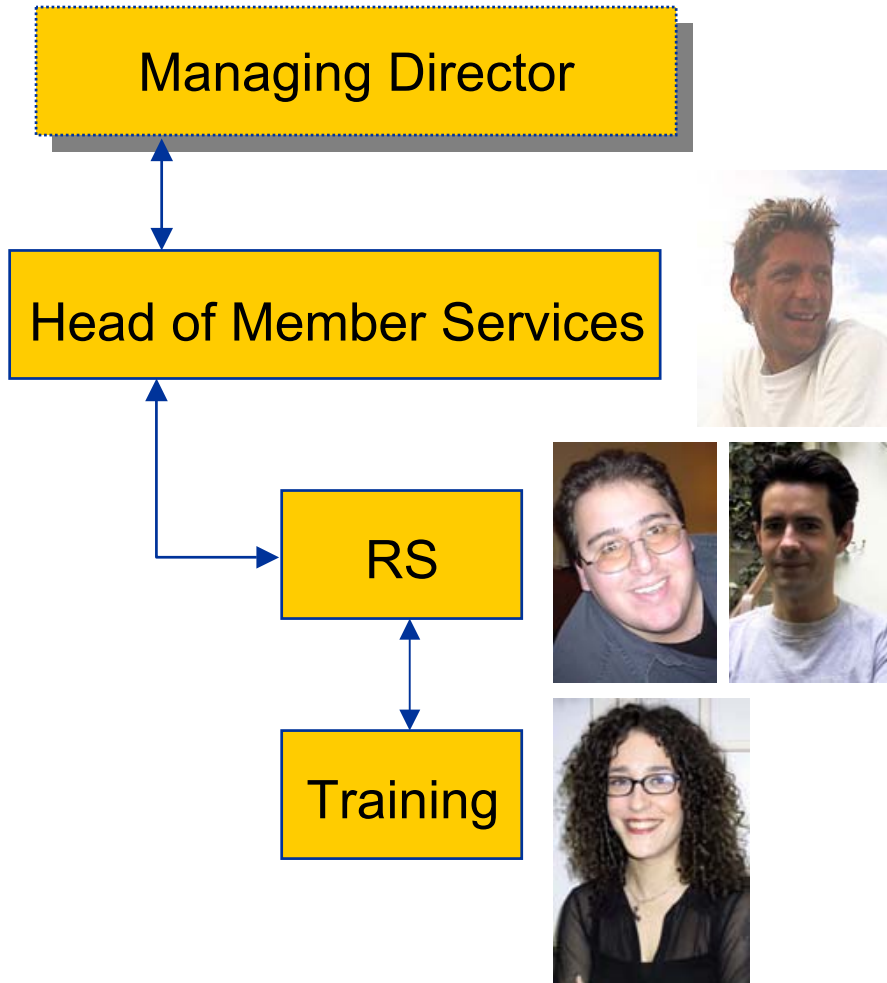
- k anycast cluster deployment
 - Amsterdam, London, Frankfurt, Athens, Doha
 - Others in preparation
- RIPE meeting webcast live
 - Windows Media streams
 - Archived
 - Being improved as experience made
- General RIPE Meeting infrastructure
- Current: Integration of NP services

Registration Services



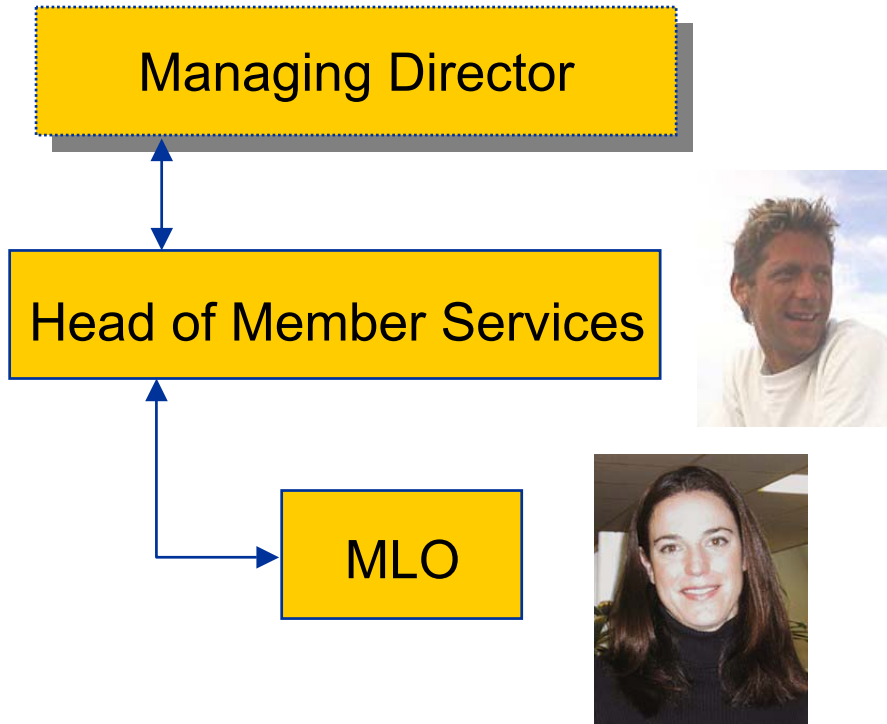
- Service Interface Improvements
 - Documentation
 - LIR-Portal
 - Wizards & Forms
 - Reverse Delegation streamlined
- Coordination between RIRs
 - Hijacking
 - Co-operate with all 4 RIRs
 - Co-ordinate Activities
- IANA Issues
 - Normally good working relationship
 - Very slow service early 2004
 - Needs a sit-down with IANA/ICANN to clarify positions and find resolve

Training



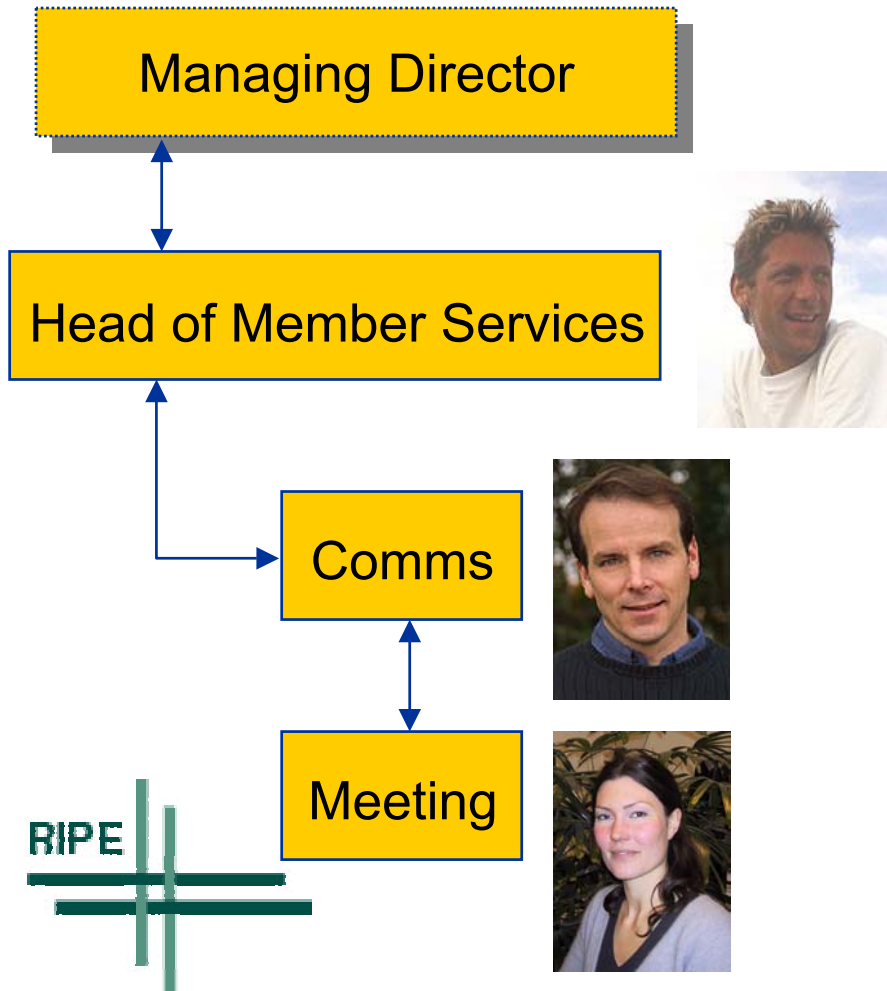
- ~ 72 courses planned
 - 56 LIR courses, 11 RR courses, 5 DNSSEC courses
- Q2 – Q3 Destinations
 - Slovakia, Senegal, Egypt, France, Bulgaria, Ukraine, Netherlands, Sweden, Prague, United Kingdom, Romania, Kenya, Iran, Denmark, Russia, Belgium, Hungary
- Defining long term training strategy
- Investigating new methods and formats (with APNIC)
- Investigating hosting options (increased coverage)

Membership Liaison



- Responsibilities:
 - Liaison activities and regional support
 - Developing communication channels
 - Improving interaction between RIPE NCC and members
- RIPE NCC Regional Meetings
 - Dubai, UAE, 7-9 December 2003
 - Moscow, Russia, 16-18 June
 - Nairobi, Kenya, 27-29 July
 - What Next?
- Support for RIPE NCC Services WG & RIPE Meetings
- Collaborate with RIRs on membership issues

Communications



- Annual Report 2003 published
- RIPE NCC Member Update
- RIPE and General meeting support
- Website Overhaul on track
- Gearing up for Information Services
- Membership Growth Survey
- General Documentation Support for all Groups
- ASO / NRO Secretariat Support

RIR Co-ordination

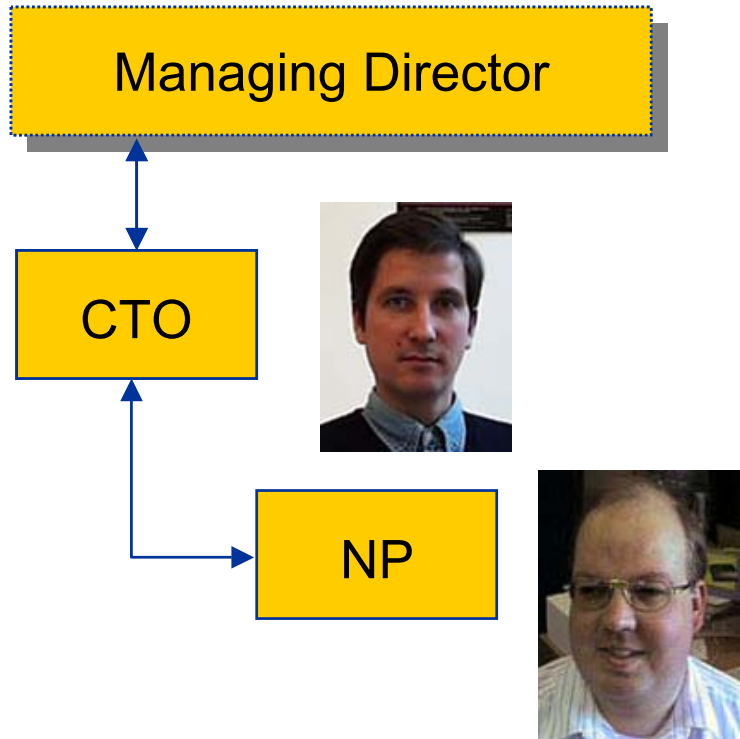
- Early Registration Project
 - Progress continues
- AfriNIC
 - AfriNIC I successful
 - Working on transition plan
 - Strong and consistent support from NRO
 - Financial bootstrapping
 - Admin / engineering efforts
 - ICANN recognition process
- RIR Statistics project
 - Consistent raw data available from all RIRs
 - Format updated
 - <http://aso.icann.org/rirs/stats/>
- RIR Staff Exchange
- Training Co-operation
- WSIS
- Joint presentations at industry events



Number Resource Organisation

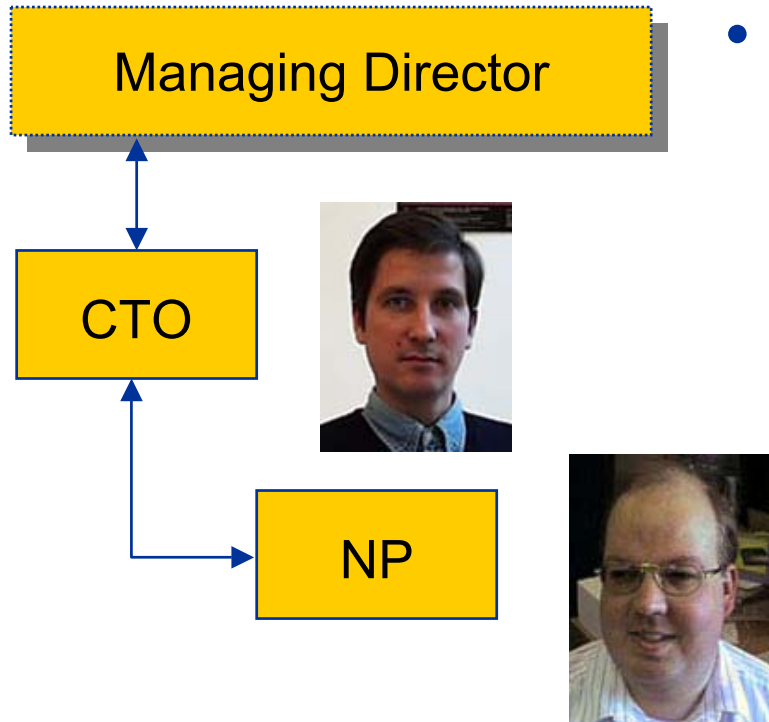
- Vehicle for even closer RIR co-ordination
- One point of entry into RIR system
- Protection of the “unallocated address pool”
- NRO established on 24 October 2003
- NRO Executive Council
 - CEOs of RIRs
- NRO Numbers Council
 - Providing advice to EC
- NRO Secretariat
- Offering NRO as body assuming the role of the Address Supporting Organisation of ICANN

New Projects



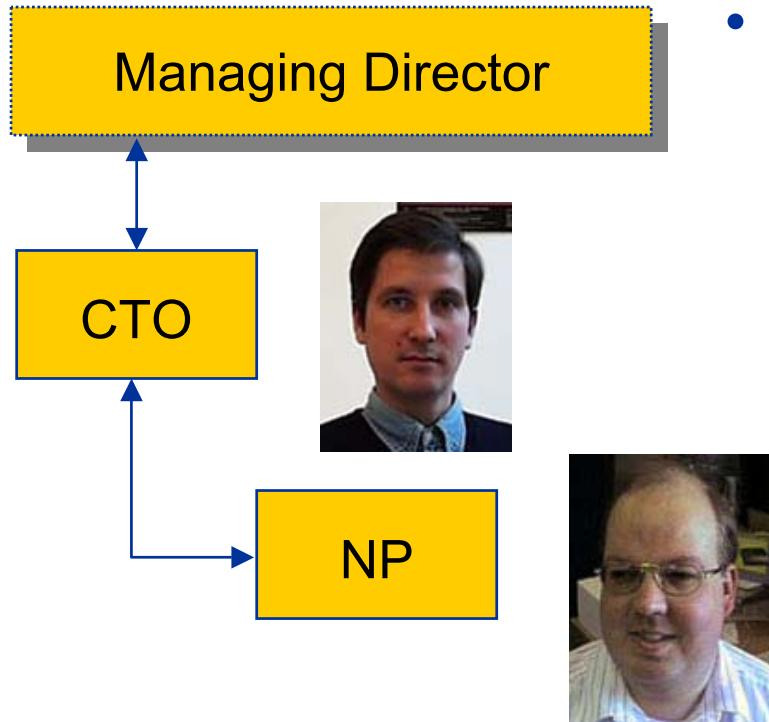
- DNSMON
 - To be moved into production service
 - Draft Service Level Agreement
 - For discussion at CENTR meeting June
- De-Bogonising new address space
 - Experiment with new 84/8 alloc done, testing 85/8 ... 88/8
 - Identified large number of sites filtering
 - Could be fixed before causing problems
 - Positive feedback from operators with earlier problems
- Responsibility for Services goes to Operations and Software groups (RIS, TTM, DNSMON)
- Re-focus of New Projects on Data Analysis & Prototyping New Services

New Projects -> Operations



- Test Traffic Measurements
 - Active measurements of the performance of your network:
 - Delay, packet loss, IP-level routing, jitter, ...
 - DNS monitoring
 - Bandwidth measurements to be added next
 - IPv4 and IPv6
 - Usage of the data
 - Debugging tool for your NOC
 - Trend analysis, plan upgrades
 - Monitor SLA's

New Projects -> Operations



- Routing Information Service (RIS)
 - Collects BGP data from participants and stores it in a database
 - Looking glass style information but
 - Historical information available
 - Not bound to any particular AS
 - IPv4 and IPv6
 - The RIS collects information at > 10 IX's around the world
 - User can do all kinds of queries on the database

RIPE NCC Information Services

*“You have all the data on IP address usage.
You should make it public and become a
trusted authority and consultant to
governments and regulators.”*



Motivation

- ... to preserve the open, bottom up industry self-regulation
- Goal:
 - “To establish the RIPE NCC as a known and trusted source of high quality information about number resource distribution and related policy formation.”
- Rationale:
 - Misinformation leads to FUD
 - FUD leads to flawed action endangering self-regulation
 - Educate and gain stability
- Partner up, don't try to do it alone

Information Services

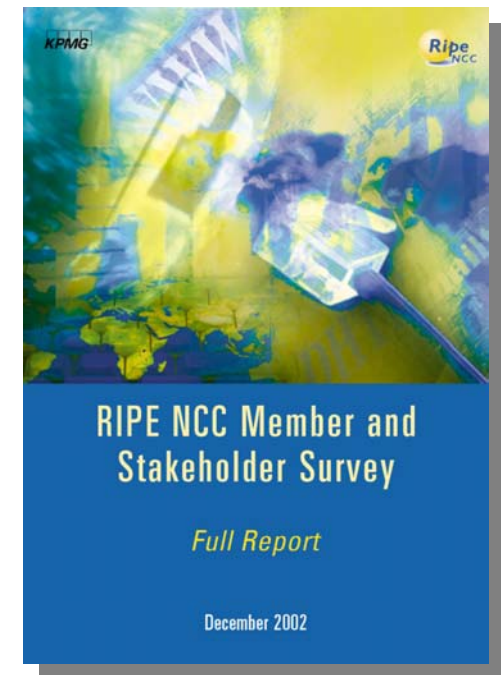
- ... are really “Co-ordination Services”
- Motivation: Protect open, bottom up industry self-regulation (aka the RIPE processes)
- Observations
 - Internet has become crucial infrastructure
 - Governments and regulators increasingly interested
 - Resource policy == public policy?
 - Myths and misinformation abound
- Provision of correct, targeted, easy to understand information by a neutral party.

For Instance...

- WSIS
 - World Summit on the Information Society
- *“The coordination responsibility for root servers, domain names, and Internet Protocol (IP) address assignment should rest with a suitable international, **inter-governmental** organization.”*
- Need to correct wrong impressions
- Work with “enlightened” governments and others
 - ISOC, CENTR, ICANN, ICC, ...

The Role of Membership Surveys

- Intention
 - Structured opportunity to voice opinion / suggestions
 - Anonymous
 - RIPE NCC: Better understanding of needs
- Surveyor
 - Neutral third party
- Style
 - No easy “tick yes or no”
 - Fostering considered responses
- Regularity
 - Every two to three years
 - Next: early 2005



Questions and Answers

