Overview

• What is it and why is it important?
• RIPE Database: Assignment Registrations
• Protecting your resources
• RIPE NCC Support
What is Registry Data Quality, Why is it Important?
Resource Registry Data

• Registration information about the holder of a resource and resource holder’s contact details

• Increasing external focus on data quality

• Logged in different places:
  - RIPE NCC delegated statistics on ftp.ripe.net
  - RIPE Database

• It does not include language, geolocation, routing or rDNS information
Address Distribution

IANA → RIR → LIR → End User

/3

/12

/32

/56

/48

/48

Allocation
PA Assignment
PI Assignment
RIPE Database: Assignment Registrations
Why Register Assignments?

- RIPE Database = Public Internet resource and routing registry database

- Registering assignments is a policy requirement
  - To declare address space as in use
  - To provide contact information
Two Examples

inetnum: 213.253.121.0 - 213.253.121.255
netname: SOFTNET-SCG
descr: Softnet d.o.o.
descr: Vladimira Popovica 40
descr: 11070 Novi Beograd
descr: Serbia
country: RS
geoloc: 44.807257 20.434981
admin-c: SOFT666-RIPE
tech-c: SOFT666-RIPE

inetnum: 213.253.125.0 - 213.253.125.255
netname: SOFTNETLTD
descr: Softnet d.o.o.
descr: Borovec 2
descr: 1236 Trzin
descr: Slovenia
country: SI
admin-c: SOFT666-RIPE
tech-c: SOFT666-RIPE
More Information

- Both prefixes are from the same /20 IPv4
- LIR located the networks in different countries by using the corresponding “country:” code
- Possibility to provide extra information using “geoloc:” and “language:” attributes

Most important:

- **Register assignments in the RIPE Database!**
  - As required by the policies of the RIPE community
IXP Country Jedi
Protecting Your Resources
Different Levels of Contact Details

• Public information
  - Registered in the RIPE Database ("admin-c:", "tech-c:", "zone-c:", "abuse-c:"); responsibility of the resource holder
  - Persons/departments to contact in case of network issues

• Details shared between LIRs and RIPE NCC
  - RIPE NCC shares LIR-related information with contact persons, accepts resource or transfer requests from a contact person

• Both need to be maintained and kept up-to-date
What can happen if not maintained?

- RIPE NCC accepts requests from LIR contact persons
  - Including requests to transfer resources away
  - Outdated contact information can cause issues

- RIPE NCC performs further checks whether a transfer is authorised
  - Due diligence
  - Thorough evaluation of required documents (Transfer Agreement, Company Registration Documents)
IPv4 Transfers - Within the Region

- Average of ~180 transfers per month
More on Transfers

• Per policy, IPv4 resources are locked for transfer for 24 months after issue date or previous transfer
  - Currently no such restrictions for IPv6 resources or ASNs
  - Resource transfers to your organisation can cause problems with geolocation
  - Buy locally or invest in your IPv6 deployment
RIPE NCC Support
Assisted Registry Check (ARC)

• Periodic review of LIR details such as:

- Registry Consistency:
  - Legal Name and Status of LIR
  - Postal Address
  - Telephone and Fax Numbers
  - Registry Contacts

- Resource Consistency:
  - IPv4 Resources
  - IPv6 Resources
  - Independent Resources

- Route and rDNS Consistency:
  - Routing Registry vs BGP Announcements
  - Lame Reverse Delegations
  - Network Reachability
ARC Goals

- Keep the registry clean and up-to-date
- Make LIRs aware of any inconsistencies with registry data
- Support LIRs with their registration tasks
- Stay in contact with our members
Questions