‘Working together’
How the RIPE NCC and its community can have a productive relationship with LEA
Introduction

The RIR system
The RIPE NCC
So what am I going to talk about

- This morning is about the - RIRs, DB and reporting errors - from an LE view.
- How can LEA participate in the RIPE community.
Richard Leaning - Me

I joined the RIPE NCC in 2015 after a 30-year career in law enforcement.

I have worked for the National Cyber Crime Unit (NCA) in the UK and also at the European Cybercrime Centre (Europol) based in The Hague.

I have extensive expertise and experience related to Internet governance, cyber security stakeholders and Internet communications relevant to cybercrime.
Regional Internet Registries (RIR)

• There are five RIRs in the world:
  - AFRINIC, APNIC, ARIN, LACNIC and RIPE NCC

• Not-for-profit membership organisations

• Distribute and register Internet Number Resources: IPv4, IPv6 and ASNs
  - “Created” by the IETF.
  - Each RIR has its own service region
  - Policy decided per region to accommodate differences
The Internet Number Registries
The RIPE Database

Brief Introduction
The RIPE Database

• Public Internet resource and routing registry database
  - IP addresses, AS Numbers
  - Contact information
  - Reverse DNS delegations
  - Routing policies
Quality of the Registration Data

- RIPE NCC does controls
  - Before the registration
  - After the registration
- Through contractual relationships
  - Between the RIPE NCC and the LIRs
- Verifying compliance with RIPE policies
- Performing audits, Assisted Registry Check (ARCs)
- Changes must be supported with documentation

https://www.ripe.net/publications/docs/ripe-657
Non-Public Data

- Only provided if a Dutch court order or other legally binding order is presented by a Dutch LEA

- LEAs and other organisations operating outside of the Netherlands are required to follow the mutual legal assistance treaties (MLAT) procedures

- The RIPE NCC will evaluate each order

- If an order is considered illegal or of a non-obligatory nature, the RIPE NCC will not comply and challenge it

https://www.ripe.net/publications/docs/ripe-588
The Internet Number Registries
Reporting Errors

RIPE NCC procedures
Which Errors?

• Incorrect information in the RIPE Database
  - Invalid/false data in organisation object
  - Invalid/false data in person objects

• Causes:
  - Old objects
  - Lack of maintenance
  - Bad intentions
Where to report?

http://www.ripe.net/report-form
What to Report?

Please tell us what you would like to report. More...

✓ Choose a category...
- Violation of RIPE Policies or RIPE NCC Procedures
- Provision of untruthful information to the RIPE NCC
- Bankruptcy, liquidation or insolvency
- Incorrect contact information in the RIPE Database
- Damage to the name, trademarks or intellectual property of the RIPE NCC

✓ I represent a Law Enforcement Agency.
Please let us know if you represent a law enforcement agency.

Organisation
Please let us know which organisation you represent. More...

Your organisation
Investigating reports

• Benefit of doubt
  - People just forget to update the database

• RIPE NCC contacts the member

• We might take further action:
  - Start an audit
  - Closure

• Outcome never reported back to reporter
Closing an LIR

- Contractual
  - Bankruptcy
  - Non payment
- Legal
  - Non compliance with Dutch law
- Fraudulent information
- Non-compliance with policies or procedures
Some Stats re LEA request

- For publicly available information
- On whether the RIPE NCC can share non-public information
- For information the RIPE NCC does not have
- For information not related to the RIPE NCC
Questions
Participating
Policy Development Process

• **Open**
  - Anyone can participate
  - On mailing lists and at meetings

• **Transparent**
  - List discussions archived publicly
  - Meetings transcribed

• **Developed bottom-up**
  - **YOU** make the policies
  - The RIPE NCC implements them
Who Does What?

- The RIPE community
  - Creates proposals
  - Discusses proposals
  - Seeks consensus
Who Does What?

- The RIPE NCC
  - Acts as the secretariat to support the process
  - Publishes the documents
  - Implements the proposals
  - We can help the community get involved in the process
  - Make sure the community speak to right people in the process. Working Group Chairs, like minded people.
Working Groups - Topics/All linked

- Address Policy
- Routing
- Database
- Anti-abuse
- Cooperation
- IPv6

- RIPE NCC Services
- Connect
- Open Source
- Measurement, Analysis and Tools
Who Makes Policies?

Global Policy Proposal

AFRINIC community

RIPE community

ARIN community

APNIC community

LACNIC community

AFRINIC

RIPE NCC

ARIN

APNIC

LACNIC

consensus✔

ASO

ICANN / IANA
Questions