



# REX

*Number **R**esource **EX**plainer*

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# ***“All you ever wanted to know about an Internet Number Resource”***

Imagine a tool which tells you

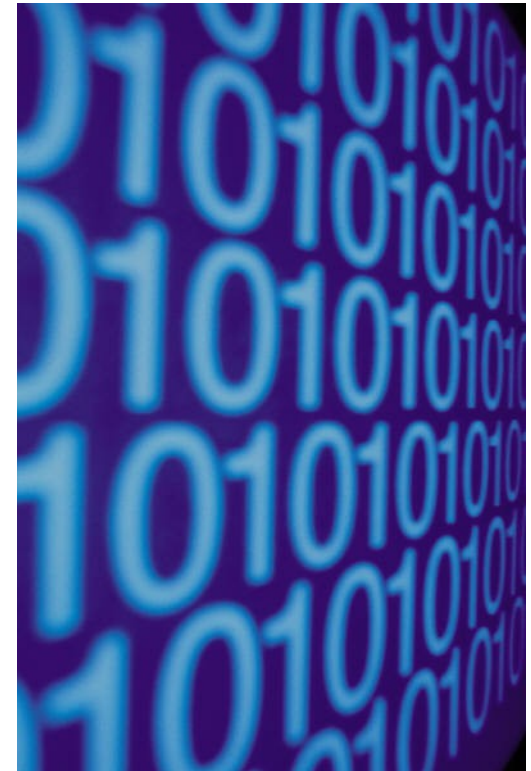
- Who is responsible for an IP block / AS number
- If the resource is used ...
- Seen in routing tables ....
- Where it is used ...
- ....

Both present **AND** historic states ....



# Utopia?

- Not entirely
- RIPE NCC has a lot of data
  - RIPE database
  - Internal registration data
  - Reverse DNS delegations (RIPE region)
  - Routing Information Service (10 years of collected BGP data)
- And there's more publicly available
  - RIR delegation statistics
  - Geolocation
  - Blacklists / spamlists
  - ....





# The Idea

Based on *current data* amended by *data collected specifically* for this purpose we could develop a **new service** with:

- Provides **comprehensive, interpreted information** about historic and current state of specific resources (IPv4, IPv6 addresses & AS numbers)
- Could be a **one-stop-shop** for all who seek information about the resources
- Can deliver information **specialised** towards different user groups
- Fullfills part of our “**Trusted Source of Data**” mission

Not a white elephant ...



# Motivation

- We observe a *clear need* for a service where:
  - History and current **status of resources** can be looked up
  - Information from many sources are **combined** and **explained**
- Some reasons are
  - Growing use of recycled / transferred resources
  - Proliferation of resource abuse
  - Supporting resource management activities



# Current Status

- Science Group have implemented a prototype
  - Fully functional, publicly available
  - First focus is on content
  - Currently digs into:
    - Routing information (10 years of RIS BGP table dumps)
    - RIPE Database (7 years of transaction history)
    - RIR delegation stats
    - Geolocation (maxmind's geolite)
    - Blacklists (uceprotect, spamhaus drop)
    - CAIDA IPv4 DNS-names



# Next steps

- Based on community feedback:
  - Continue with development
  - Expand reports
  - Improvements in User Interface, graphics
  - More combining, interpreting and explaining
  - Tailored reports for specific user groups
  - ....



# Live Demo



# Next steps

- Based on community feedback:
  - Continue with development
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  - Improvements in User Interface, graphics
  - More combining, interpreting and explaining
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  - ....
- Need *your* input
  - Give it a try at: <http://rex.ripe.net/>
  - Discussion: <http://labs.ripe.net/node/54>



# Questions?



<http://rex.ripe.net>

Discussion: <http://labs.ripe.net/node/54>