

# De-Bogonising New Address Blocks

## First Experiences

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# Why De-Bogonise ?

- Connectivity issues for new address block users
  - On all levels: Tier-n, Local, Laptop!
  - Routing
  - Packet Filtering
- Caused by sloppy maintenance of filters
  1. “let’s be sophisticated”
  2. Let’s forget all about it
  3. Let’s not even remember/care when problems arise

# What is De-Bogonising ?

- Targeted notification of new address blocks
  - “shouting it out” by announcing pilot routes
  - Temporary, until sufficient production routes are there
  - Non-production (no production traffic)
- Checking propagation of route
  - using RIS Database
  - Publish results
  - Targeted notification of persisting Problems

# What is De-Bogonising ?

- Providing diagnostic tools to operators (& users)
  - Web page of propagation monitor (just mentioned)
  - Pingable targets
    - If I can ping, I (or my provider) hears the route
    - If I can ping, there is no packet filter in the way
  - Web based pinger ***within*** new address blocks
    - Useful for testing if interesting sites reachable
  - Web based traceroute ***within*** new address blocks
    - For more easy diagnostics of “return” path



# What it is **not** !

- RIPE NCC setting routing policy
- RIPE NCC recommending for/against bogon filtering

# Pilot in 84/8

- Set up immediately after request at last meeting
- Easy because of the RIS
  - Used RIS Route Collector in Amsterdam to announce
    - Main effort was coordinating with peers
  - Announced two prefixes
    - /21 (minimum allocation size)
    - /16 (intuitively picked)
  - Checked propagation
    - Had holes as expected
    - Did notifications
  - Targeted notification fixed most detected problems

# Pilot in 85-88/8

- Added pingable targets
- Added Pinger / Tracerouter
- More peer coordination needed
  - More prefixes
  - Ping / traceroute Traffic

QuickTime™ and a  
TIFF (LZW) decompressor  
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# Experiences

- **Easy to set up because we have the RIS**
- Overwhelmingly positive reactions
  - “beyond the call of duty”
  - “very helpful”
  - “we found an unexpected misconfiguration, thank you!”
- We also became a “target”
  - “can you get those \$%#%\$#%@ to update their filters”
  - “you condone useless/bad practices” (bogon filtering)

# Credits

- **The RIS**
- The Hostmasters
- James Aldridge



# Pointers

<http://www.ris.ripe.net/debogon/>

- Short Explanations
- Propagation Analysis
  - With history
- Pinger/Tracerouter
- Draft Document

# After the Pilot

- Should this be a regular service ?
- Are we providing adequate lead times ?
- Improvements ?
- Turning Draft Document into RIPE document !