How does APNIC manage bogon address blocks?

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What is a bogon?

- A routed IP address block or ASN that is not delegated to any organization is considered a bogon
- It is different to a hijack
- A hijack is the unauthorized use of another organization's delegated IP addresses or ASNs

Possible bogon ranges

- IANA reserved space
- RIR undelegated space
- RIR reclaimed space

What are the problems?

- Unauthorized use of Internet number resources
- Pollutes undelegated resources
- Delayed resource recycling

Why does APNIC care?

- Bogons related to APNIC managed resources
 - Resources reclaimed by APNIC but still in use
 - Use of APNIC undelegated resources

What can APNIC do?

- First Try to avoid resources going to the bogon list
- Second Monitor the bogon list
- Third Take action on the bogon

Avoiding resources going to the bogon list

- During the membership closure process, if the Member still uses their resources, APNIC will do its best to contact the Member
 - This includes contacting their upstream providers
- When APNIC closes a Member account, if their resources are still in use, APNIC will contact their upstream providers and request they stop announcing or providing transit for those resources

Monitoring the bogon list

- APNIC has a weekly status report for terminated IPv4 space to check if they are still in use
- APNIC also monitors the bogon list for resources under APNIC management

Actioning bogons

- According to the reports, APNIC Hostmasters will contact the ASNs that are announcing or providing transit to the bogon ranges
- APNIC will continue to follow up with the related ASN until it has been removed from the bogon list

Results

- Some ASNs stopped routing the bogon prefixes
- Some members contacted APNIC and reopened their accounts to continue to use the resources
- Some ASNs ignored our requests and continued to use the resources

Support from the community

- We need your support to stop the bogons
- Keep your contact information up-to-date with APNIC to avoid membership closure
- Do not announce or provide transit to these unallocated resources

Questions?

Thank you

