Maintaining your APNIC Routing Registry (RR) data

HKNOG 6.1
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APNIC database and the Internet Routing Registry (IRR)

• APNIC Whois Database
  - Two databases in one

• Public network management database
  - Whois information about networks and contacts (IP addresses, ASNs and so forth)

• Routing Registry (RR)
  - Contains routing information (routes, filters, peers and so forth)
  - APNIC RR is part of the global IRR
APNIC RR NRTM agreements

- RADB
- JPIRR
- NTT
- CNNIC
- AFRINIC
- IDNIC
Out-of-region route objects in RIPE IRR

- Need for operators to have route objects for out-of-region prefixes
- No workable solution for cross-registry authorization
- Routes created using a well-known maintainer with public password
- Authorization by prefix custodians was unverified
Changing views in the RIPE community

- Good reasons for creating this service initially
- Increase in out-of-region prefix hijacks with false route objects
- Support for this service has faded in recent times
- RIPE DB working group declared consensus on stopping this service
Does this change affect you?

- No new route objects for out-of-region prefixes in RIPE RR
- “source:” attribute of existing objects will be modified to “RIPE-NONAUTH”
- Further community consultation before deleting these objects
Out-of-region routes using APNIC prefixes
Number of APNIC Members affected
WHAT SHOULD YOU DO IF YOU ARE AFFECTED?
Start registering your route objects!

• Your addresses, your ASN?
• Objects created in APNIC Whois Database using normal mechanisms
  - Use MyAPNIC or auto-dbm@apnic.net
Your addresses, somebody else’s ASN?

- ASN belongs to another APNIC Member?
  - Email notification sent to Member contacts

- ASN delegated by other RIR?
  - Email notification sent to whois contacts of ASN

- Unallocated ASN?
  - Email notification to APNIC Helpdesk for follow up
Route objects in APNIC RR

Create  Delete

- 2013: 37828 (7402 create, 4046 delete)
- 2014: 61567 (601 create, 781 delete)
- 2015: 39328 (1110 create, 362 delete)
- 2016: 27198 (1020 create, 2720 delete)
- 2017: 16433 (2720 create, 16433 delete)
- 2018: 3876 (1160 create, 27198 delete)
Import your routes from whois & BGP

Routes

Register your routes in MyAPNIC using the tool below. It will automatically create route objects in the APNIC Whois Database with any AS number you have authorized. RPKI ROAs will also be created at the same time, if the ROA option is enabled (changes to RPKI may take around ten minutes to propagate so the ROA status will not be updated until then).

Import routes

Route objects associated with your resources but not managed under this tool were found in APNIC Whois database.

- Review & Import from Whois
- BGP announcements associated with your resources but not managed under this tool were found.
- Review & Import from BGP
Creating new routes

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Maintaining your routes

Maintaining your routes

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Routes

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Create route  Delete selected

Show 10 entries

Select all  Deselect all

Search:

<table>
<thead>
<tr>
<th>Route</th>
<th>Origin AS</th>
<th>ROA status</th>
<th>Whois status</th>
<th>Actions</th>
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Questions?

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