

Mapping RIR Resources

RSM Meeting

26 June 2012

The EXTENDED Stats Report

- Add two new status to the RIR Stats report:
reserved - not available for allocation at present
available – available for allocation or assignment

reserved may include:

holding pending return to IANA

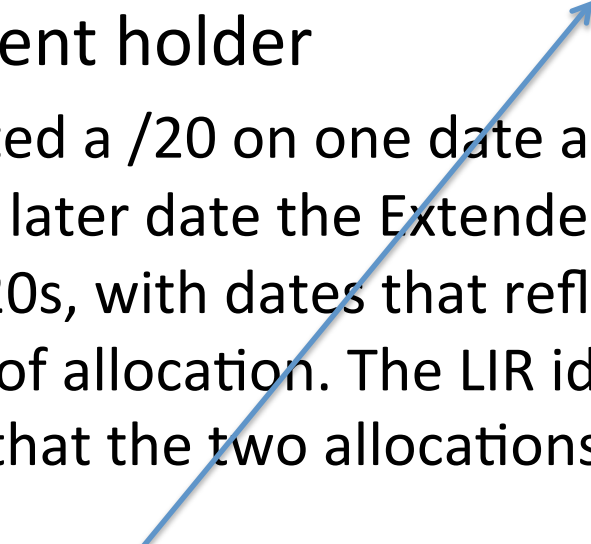
holding pending final closure of an LIR's holdings

holding for any other reason

The EXTENDED Stats Report

- Additional column:
 - LIR identifier
 - Allocations to the same LIR share a common LIR identifier
 - The LIR identifier may be obscured
 - The LIR identifier may be null

The EXTENDED Stats Report

- Semantics:
 - The DATE field is the date this resource was allocated, assigned or ~~most recently transferred~~ by the RIR to its current holder
 - If an LIR is allocated a /20 on one date and the adjacent /20 at a later date the Extended Stats report should list two /20s, with dates that reflect the respective dates of allocation. The LIR identifier may be used to indicate that the two allocations were made to the same LIR
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APNIC please change!

The EXTENDED Stats Report

- Contents
 - All resources directly administered by this RIR should be listed in the extended stats file.
 - Resources returned to the IANA, or administered by another RIR should NOT be listed in the RIR's extended stats file.

The EXTENDED Stats Report

- Syntax
 - Records should be ordered by resource type, (asn, ipv4, ipv6) then by numerical value of the start AS or address.

Combining Stats Files

- Step 1 – Synthesise a IANA extended stats file
 - Take the IANA ASN, IPv4 and IPv6 registries
 - Add the footnotes of the IPv4 registry
 - Add the inter-RIR transfers of the legacy-holes
 - Add the returns to IANA (RIPE NCC & ARIN)

Combining Stats Files

- Step 1 (cont)
 - Generate an extended stats file
 - Status values:
 - reserved: reserved by the ietf, or a special allocation by the ietf
 - allocated: allocated to an RIR
 - available: neither allocated nor reserved
 - LIR identifiers:
 - ietf
 - afrinic
 - apnic
 - arin
 - ripencc
 - lacnic
 - iana

Combining Stats Files

- Take the RIPE NCC and APNIC extended stats files
- Take the AFRINIC, ARIN and LACNIC stats files
- Create a consistent set of allocation dates
 - Amend the dates of the ARIN stats file
 - Use the APNIC transfer registry to find the original allocation dates of transferred resources
- Join these files
 - And list any clashes
- List all “holes”
 - And assign each hole to a holding RIR, based on the LIR value of the IANA extended stats file

Reports

- IANA:
 - <http://www.potaroo.net/bgp/stats/iana/delegated-iana-extended>
- RIRs
 - <http://www.potaroo.net/bgp/stats/nro/delegated-nro-extended>
- Recommend daily production of extended stats files to the NRO EC as a matter of urgency (i.e. available by 1 September 2012)
- Circulate production material to RSM list