RPSLng status update

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Overview

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RPSLng overview

- RPSLng updates the Routing Policy Specification Language (RPSL) to support IPv6 and Multicast
- Updates RFC's 2622 and 2725
- Maintains backward compatibility with RPSL
- Goal: limit number of new classes and attributes
- Mailing list at: rpslng@ripe.net
  - Archives at www.ripe.net/ripe/mail-archives/rpslng
Summary of Changes

★ One new class created – “route6”
  ★ Analogous to the “route” class, but for IPv6 prefixes

★ Changes to existing aut-num: class
  ★ New “mp-import”, “mp-export”, and “mp-default” attributes
  ★ Adds “afi” keyword to specify address families

★ Existing “route-set”, “filter-set”, “peering-set”, “rtr-set” classes also get new “mp-” attributes for multi-protocol set membership expressions

★ New “interface” and “mp-peer” attributes are added to the “inet-rtr” class
Examples

route6: 2001:620::/32
descr: SWITCH, The Swiss Education & Research Network
origin: AS559
....

autnum: AS559
as-name: SWITCH
mp-import: afi ipv6.unicast from AS4589 accept AS-EASYNET
mp-import: afi ipv6 from AS6680 accept ANY
mp-import: afi ipv4.multicast from AS20932 accept AS-IP-MAN
....
mp-export: afi ipv6.unicast to AS4589 announce AS-SWITCH
mp-export: afi ipv6 to AS6680 announce AS-SWITCH
mp-export: afi ipv4.multicast to AS20932 announce AS-SWITCH
....
The Internet Draft was brought before IETF Operations and Management WG chairs

- Did not want to try to reconstitute the the RPS WG
- WG chairs agreed to shepherd Draft through IESG to be published as a proposed standard

Internet Draft has received IESG approval

- draft-blunk-rpslng-08.txt
- HTML version at http://www.radb.net/rpslng.html

Awaiting RFC Editor comments/approval
Implementations

★ Merit and RIPE NCC have both implemented RPSLng support in their whois server software
★ Merit IRRd source available at www.irrd.net
★ RIPE NCC has also updated IRRToolSet with RPSLng support
  ★ Also recently incorporated a number of fixes and updates including support for gcc 3.x
  ★ Will be turning code maintenance over to ISC
Deployment status

- As of today, Merit now supports RPSLng in the RADB routing registry
  - Also have deployed native IPv6 transport support for whois queries – use v6.radb.net
- RIPE planning on production deployment sometime in November
  - Test server available at rpslng.ripe.net port 53001
- Not currently aware of the deployment plans of other registries
IRR Coordination

★ Merit has created an email list to foster better coordination between routing registry operators
★ The irrc@merit.edu list is an open forum where both registry users and operators can participate
★ Archives will be at www.merit.edu/mail.archives/irrc
★ Will address RPSLng deployment and other issues
★ mirroring/replication issues
★ Authority and authentication
★ New standardization efforts