

# **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](mailto:rpslng@ripe.net)
  - ★ Archives at [www.ripe.net/ripe/mail-archives/rpslng](http://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
....
```

# Standard Status

- ★ 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 [www.radb.net/rplsng.html](http://www.radb.net/rplsng.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](http://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](mailto: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](http://www.merit.edu/mail.archives/irrc)
- ★ Will address RPSLNg deployment and other issues
  - ★ mirroring/replication issues
  - ★ Authority and authentication
  - ★ New standardization efforts