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networking swiss army knife

updates since [ripe71](#)

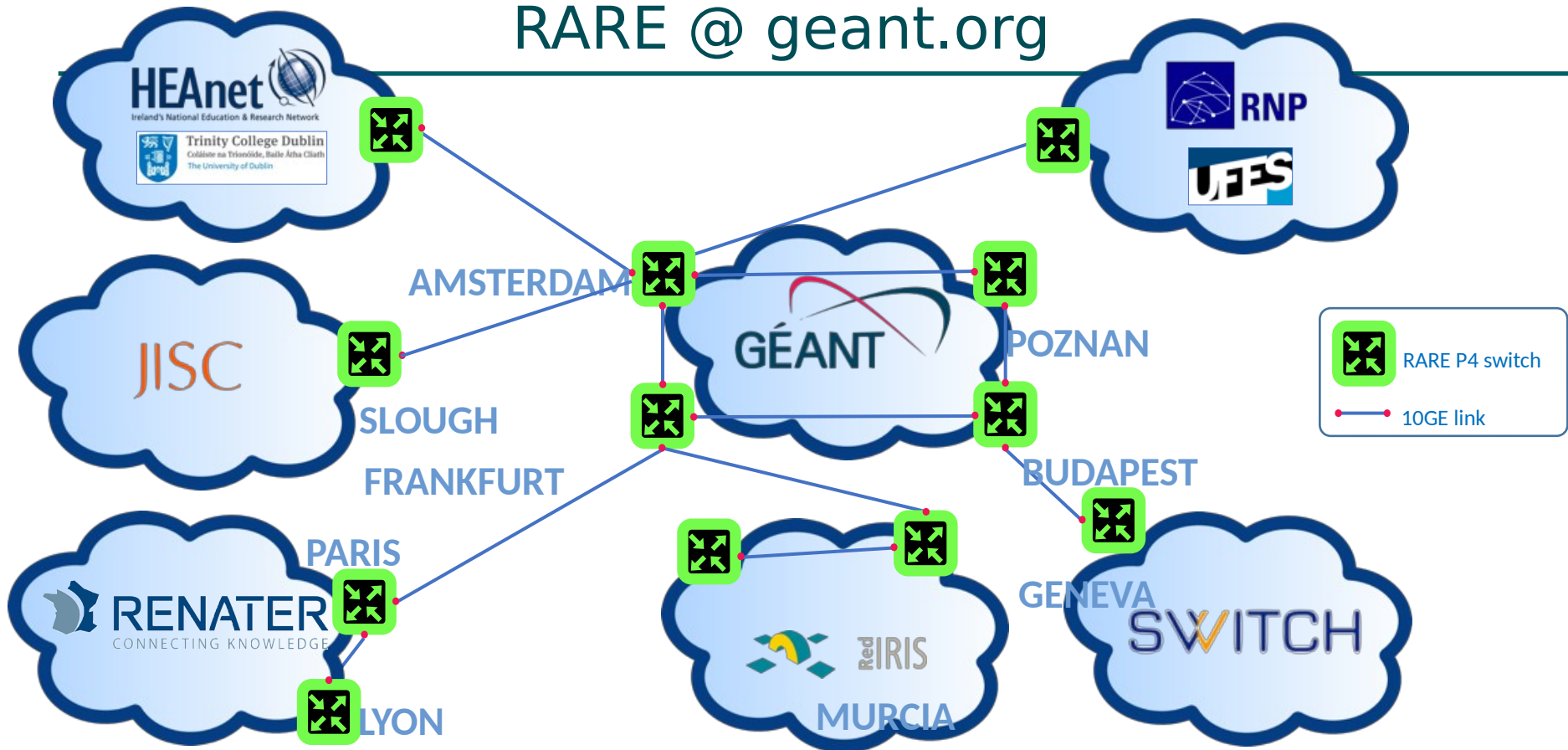


news since [ripe71](#)

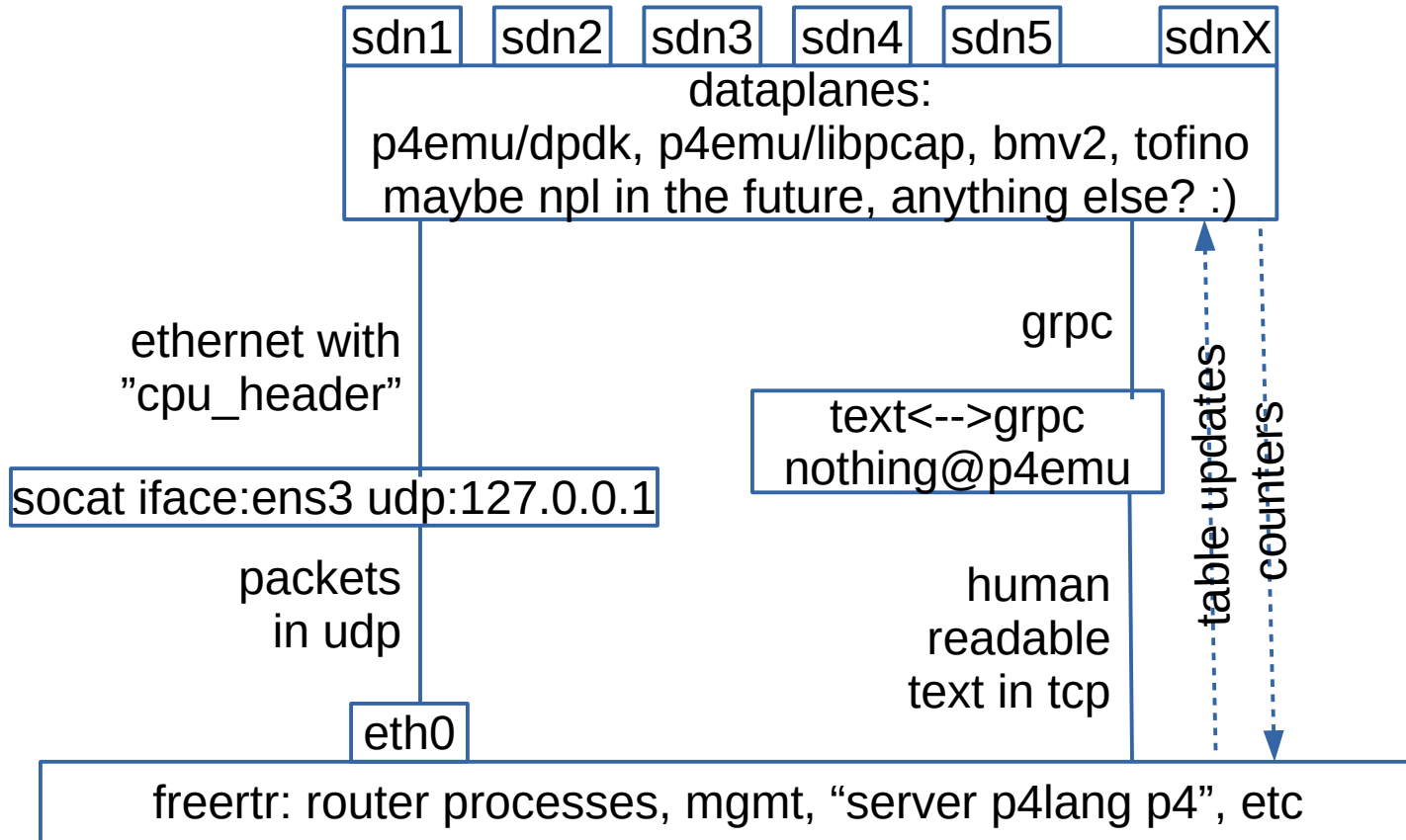
- more config options: rpl, pbr, evc, autoroute, racl, infra-acl
- more afis in router processes: unicast, multicast, flowspec
- more bgp afis: 21 at the moment and increasing...
- imaginary router processes: aggr, deaggr, blackhole, downloader, flowspec(rewriter), logger, mobile, uni2flow, uni2multi
- more [self-tests](#): ran hourly, 2k3 total: 300 interop, 300 dataplane
- code refactorings: [full feed in 13 secs](#), ip aware spf, ecmp/ucmp
- more encaps: bier, nsh, srv6
- more tunneling modes: ovpn, wg, some more
- more security features to protect the control plane
- telephony: dial-peer, translation-rule, “server sip”
- netconf, restconf, sensors: streaming telemetry, prometheus, nrpe
- some smaller things, see in the auto-generated [changelog](#)



RARE @ geant.org



rare.freertr.net architecture



dataplane info

per dataplane capabilities: sources.nop.hu/cfg/p4lang*.ini

copp acl nat vlan bundle bridge pppoe hairpin gre l2tp route mpls vpls evpn
eompls gretap pppoetap l2tptap vxlan ipip macsec(*) ipsec(*) pckoudp
openvpn(*) wireguard(*) srv6 pbr qos flwspc mroute duplab bier

*: only in p4emu/dpdk and p4emu/libpcap

useful links:

freertr home: www.freertr.net

a project member's journey: blog.freertr.net, [@rare_freerouter](https://twitter.com/rare_freerouter)

more about the dataplanes: rare.freertr.net, rare-users@lists.geant.org

source core:

freertr core: sources.nop.hu/src/

tofino: sources.nop.hu/misc/p4bf/

bmv2: sources.nop.hu/misc/p4lang/

p4emu: sources.nop.hu/misc/native/ p4*



Questions?

