

Anycast of i.root-servers.net – an update

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The best news first

**I.ROOT-SERVERS.NET IS ANYCAST.
OPERATIONAL ON AUG 22. SERVER KIT
INSTALLED AT FICIX, HELSINKI,
FINLAND. REGIONAL TRANSIT: FINLAND
ONLY.**

NNNN

The plan ...

- To have 20–25 anycasted instances worldwide of i.root-servers.net within a year.
- Two types:
 - Installed by Netnod/Autonomica.
 - In co-operation with PCH (behind their infrastructure).
- Autonomica owns and operates equipment in all cases.

Package solution

- Standard design used at Autonomcia sites:
 - 2 routers + 2 servers + switch
- Need:
 - ~8U rack space.
 - Power.
 - Hands-on in emergency cases.
 - Management network.
 - Including /28 from ISP.
 - Transit.
 - At least for the management addresses.

Routing

- Routing:
 - New ASN: 29216!
 - Will be used by all instances of i.root.
 - Often seen behind PCH or Netnod.

Please note:

192.36.148.0/24 will change source AS to 29216!

Current sites and nearest plans

- Ourselves:
 - Stockholm (of course!)
 - Helsinki (operational since Aug 22)
 - London
 - Milano
- With PCH:
 - Johannesburg
 - (Moscow)

Finance

- Autonomica/Netnod pays for HW, operations, installation.
- Our hope: host provides
 - Connectivity (world transit or regional).
 - Housing (rack space/power/cooling/...).
 - Occasional power thumb.
- Cost recovery:
 - House anycasted high level domain (e.g. TLDs).
 - Hopefully this will also be interesting for the hosts!