K-Root Name Server Operations

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K-root Milestones

• Operated by RIPE NCC since May 1997
  – Hosted by LINX in London

• Running NSD since February 2003
  – Increased software diversity and performance

• Anycast since July 2003
  – Two global instances: London and Amsterdam

• Wider anycast deployment (2004)
  – Local nodes (deployment)
  – Nodes outside the RIPE NCC region (investigation)
Current Status

• 2 global instances
  – London and Amsterdam

• Available via IPv6 @ 2001:7fd::1
  – Global instance in Amsterdam

• Four “local” nodes are deployed
  – Objective is to improve service for local ISP communities in the RIPE NCC region
  – Latest developments: Qatar (Doha) and Italy (Milan)
Future Plans

• Deployment of local nodes
  – Iceland, Finland, Hungary, Poland, Russia, Switzerland, UAE

• Nodes outside the RIPE NCC region
  – Objective is to improve global service resilience
  – Ideally located at topologically equidistant places
  – The same management model as for local nodes
  – Different funding model
  – Looking for 3-5 locations in Asia and the Americas
    • AP in cooperation with APNIC
K-root Statistics (Cumulative Load)
More Information

- **Root operators**
  - [http://www.root-servers.org](http://www.root-servers.org)
  - [http://[a-m].root-servers.org](http://[a-m].root-servers.org)
    - [http://dnsmon.ripe.net](http://dnsmon.ripe.net)

- **Root server analysis**

- **Anycasting**
More Information (cont.)

- K-root
  - http://k.root-servers.org

- K-root anycasting
  - Contact at k-anycast@ripe.net
http://www.ripe.net/presentations