



**NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT
IN INFORMATICS - ICI BUCHAREST**



.ro ccTLD Stats



- The RoTLD represents the official authority that administers .ro ccTLD by creating, implementing and maintaining the software systems, databases and all the infrastructure needed for the .ro domain to be present on Internet.
- In 1992, the first LIR (Local Internet Registry) was established at ICI Bucharest with the purpose to allocate Internet resources (IP addresses and ASN numbers) to Romanian institutions, companies and individuals who started to build their own networks. It was the first national research and education network (NREN) named RNC (Reteaua Nationala de Calculatoare).
- In 26 February 1993, IANA (Internet Assigned Numbers Authority) delegated ICI Bucharest to be the operator of .ro ccTLD Registry. This is considered the birthdate of .ro Internet domain.

RoTLD Registry – operational model (3R)

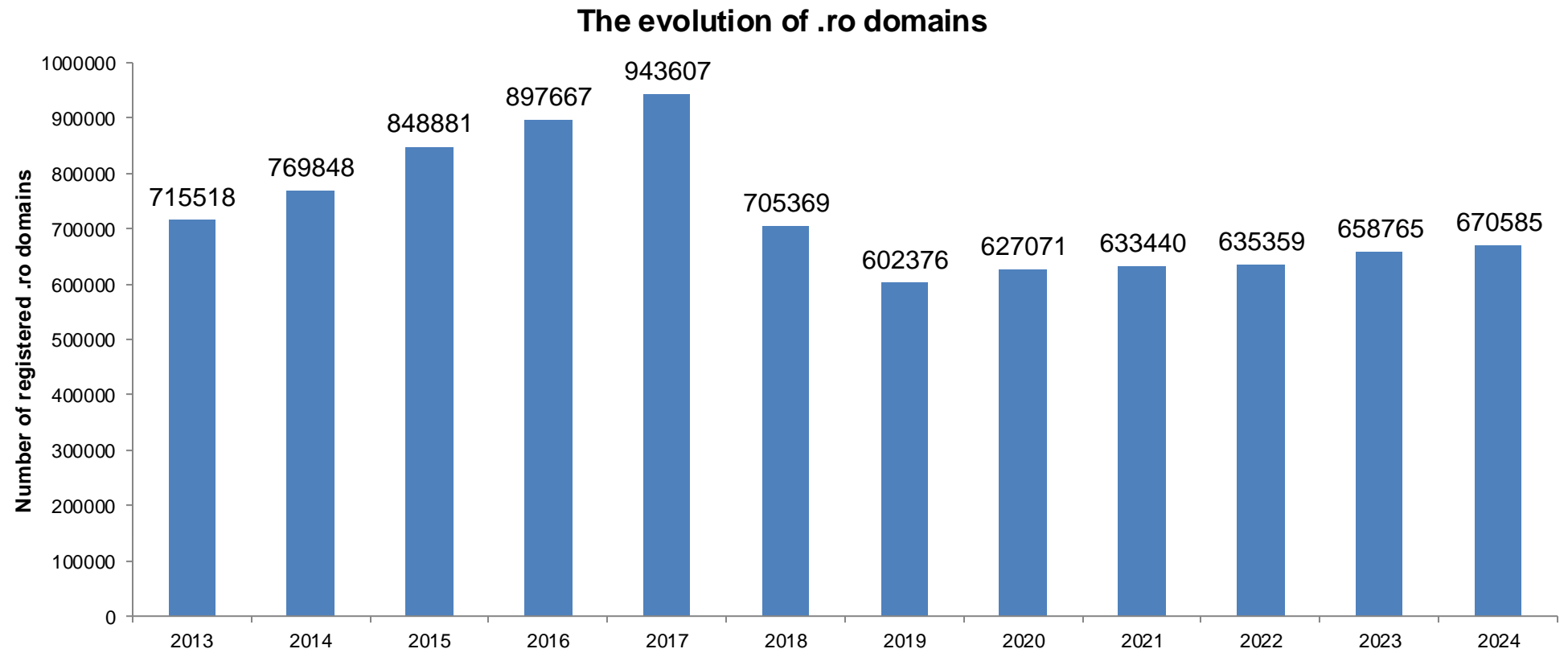
- **Registry** - represents the entity responsible for the administration of a top level domain (TLD)
- **Registrar** - the organization that registers domain names with the Registry on behalf of the users (sits between Registry and Registrant)
 - currently 214 accredited Registrars
- **Registrant** - an individual or entity who registers a domain name and become the holder of the domain right of use
 - can register .ro domains directly at Registry or by any RoTLD accredited registrar

.ro ccTLD Registry – key moments after 2010

- **May 2012** – RoTLD enabled IPv6 on it's services
- **February 2013** – New registration and administration software platform launched with REST/EPP API
- **June 2015** – Romanian IDN (Internationalized Domain Names) introduced (ă â î ș ț)
- **June 2016** – .ro DNS zone was DNSSEC signed
- **March 2018** – Transition to Annual Maintenance and Registration fee



Evolution of .ro domains



.ro ccTLD stats

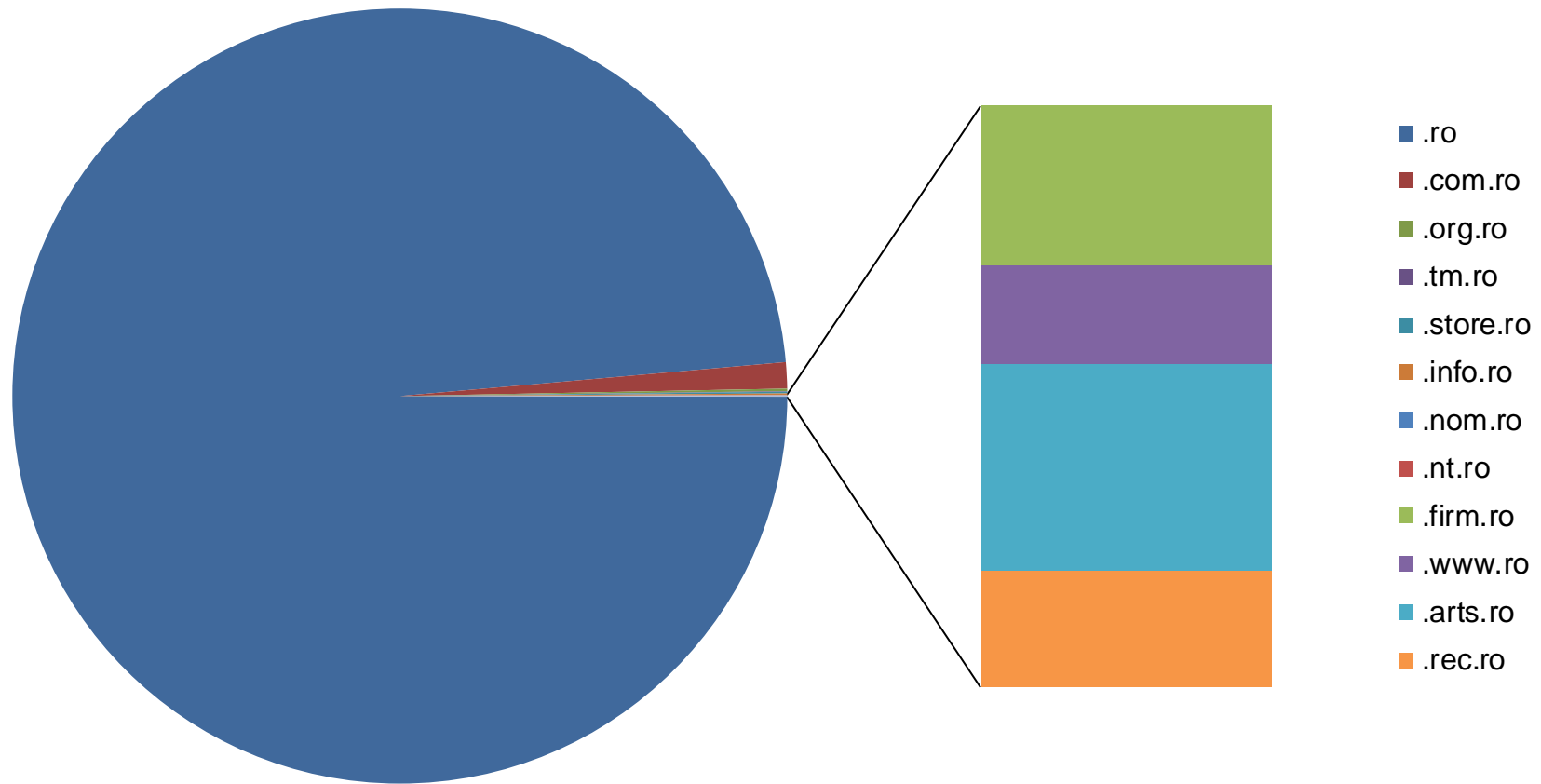
- **IDN domains** **9974 (~ 1.5%)**
- **Domains with DNSSEC** **4235 (~ 0.6%)**
- **Expired domains** **26318**
- **Domains without DNS servers** **52194**

.ro ccTLD stats

- **Number of unique DNS servers .ro** **29120**
- **Highest number of domains per server .ro** **39519**
- **DNS servers .ro with 100 - 1000 domains** **393**
- **DNS servers .ro with more than 1000 domains** **86**
- **Average number of DNS servers .ro per domain** **2.6**
- **DNS servers .ro with IPv6 records** **495**

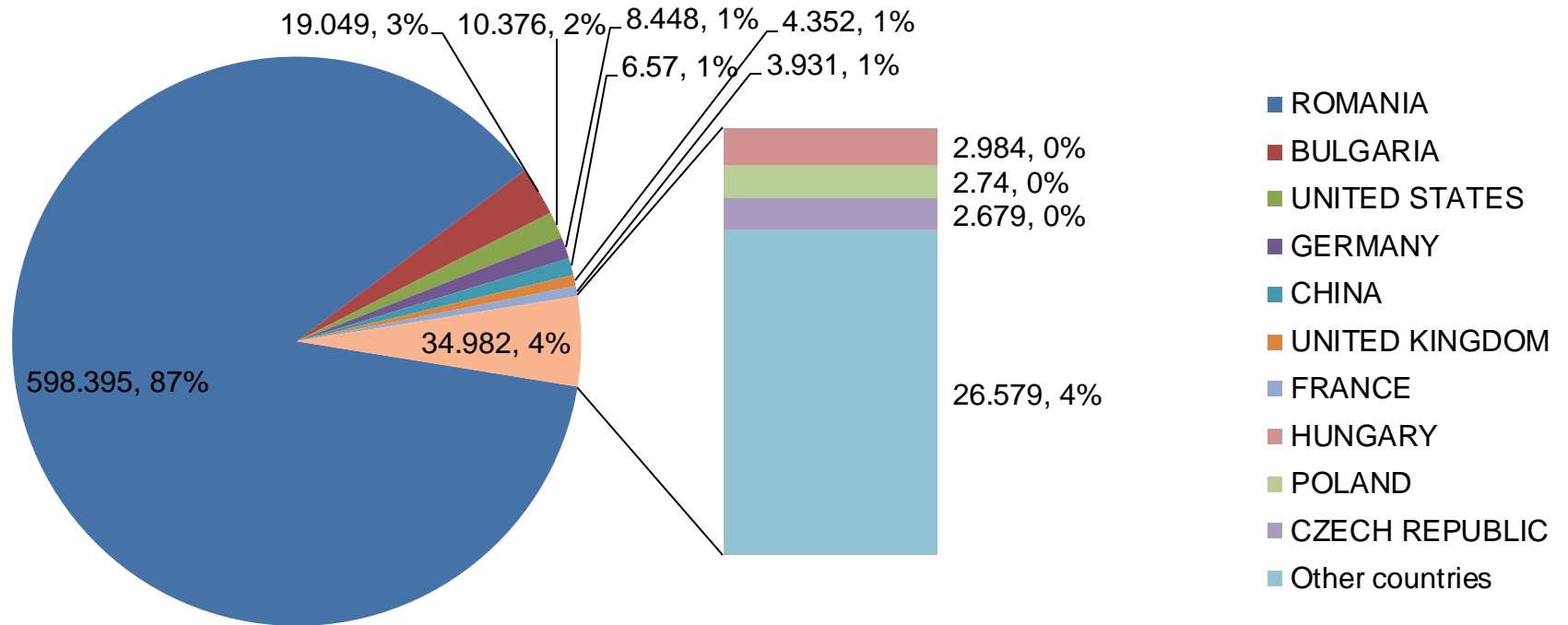
.ro domains and sub-domains distribution

.ro domains and sub-domains distribution as seen on 01.09.2024



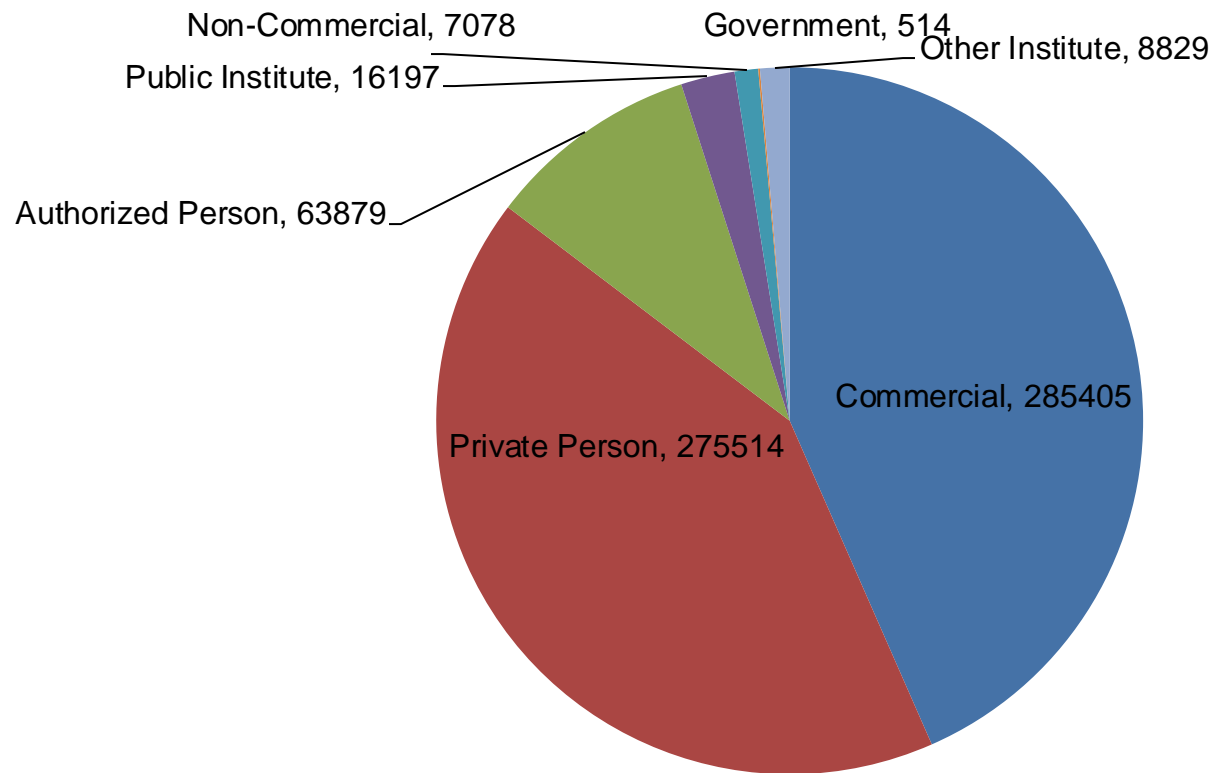
.ro domains and sub-domains distribution

Geographic Distribution for .ro domain names based on registrants (domain holders) address



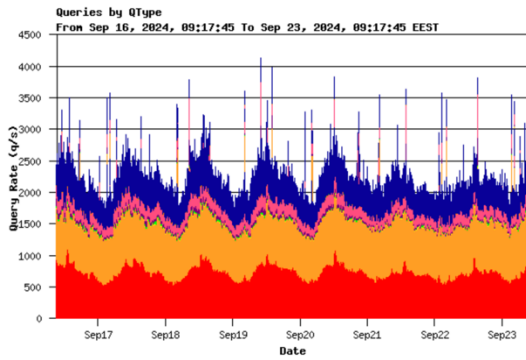
.ro domains and sub-domains distribution

Distribution of .ro domain names based on registrant types at 01.09.2024

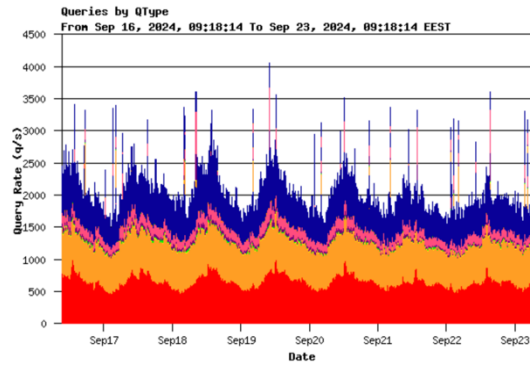


.ro DNS queries per node

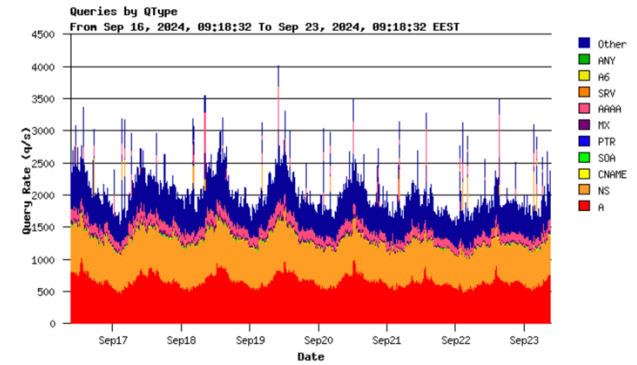
primary.rotld.ro



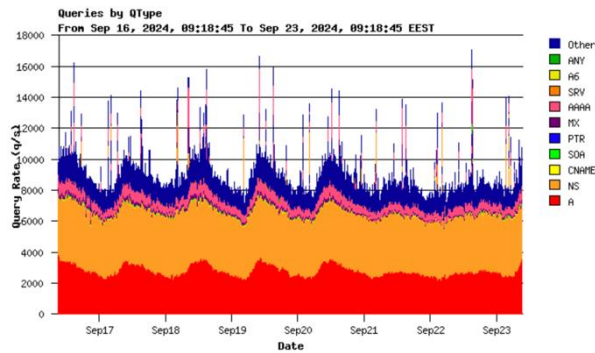
sec-dns-a.rotld.ro



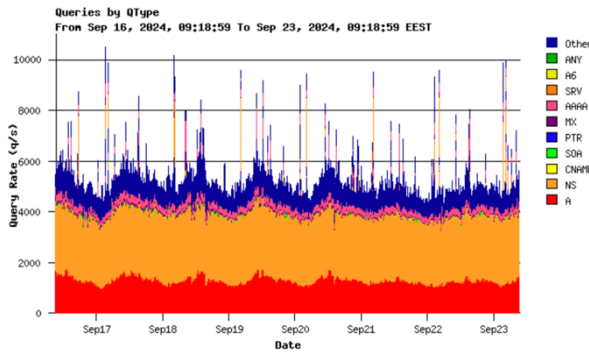
sec-dns-b.rotld.ro



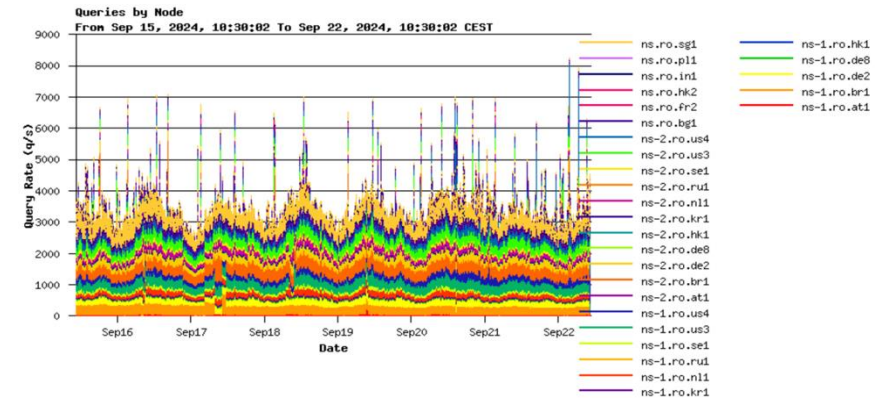
dns-ro.denic.de



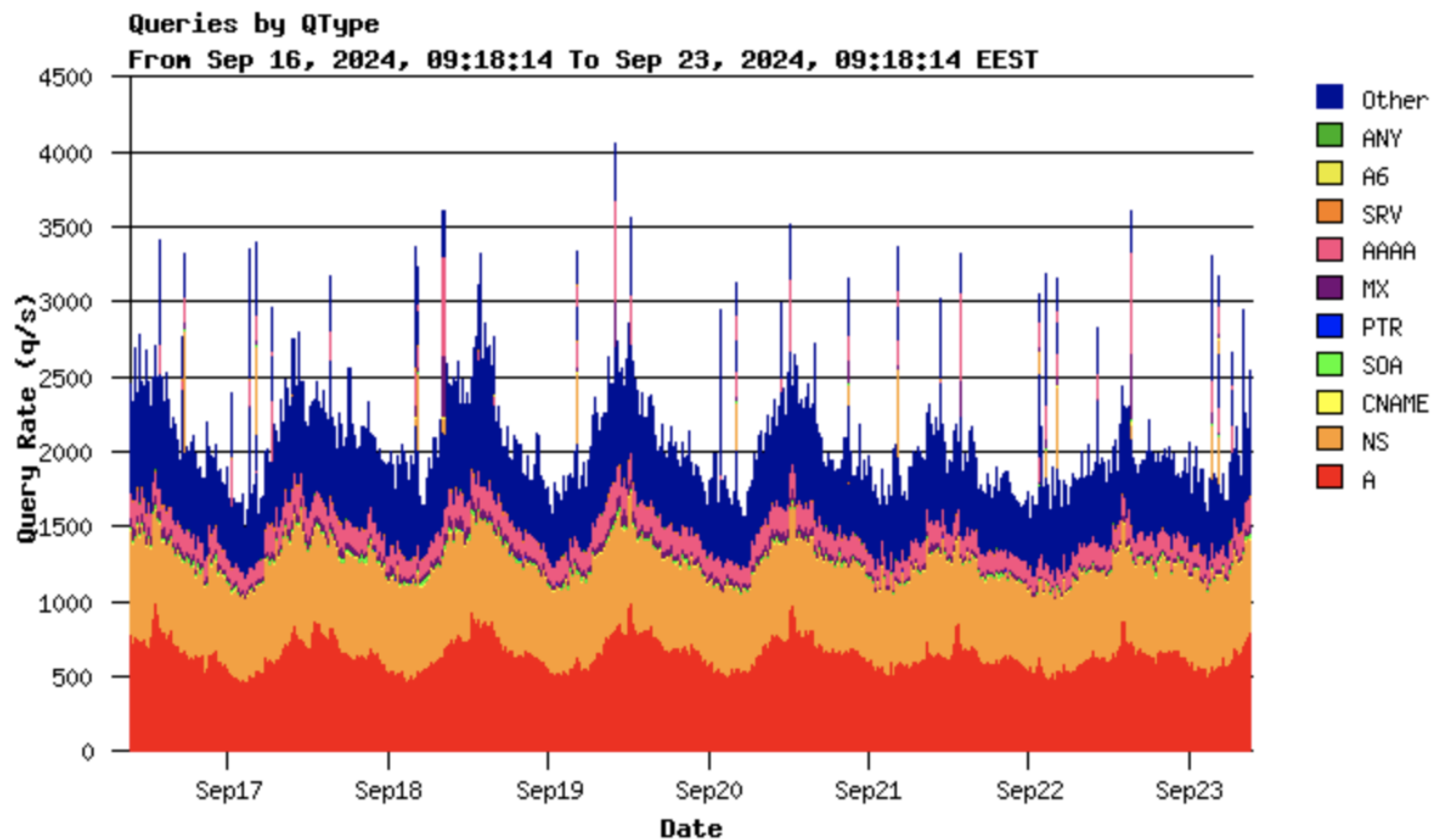
dns-at.rotld.ro



dns-c.rotld.ro



.ro sec-dns-a.rotd.ro queries



www.rotld.ro

Thank you!

Cătălin Leanca

Head of RoTLD Technical Service
catalin.leanca@rotld.ro

WWW.ICI.RO
