



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

DNS Update

What's happened since RIPE 78?

The DNS team



Hanieh
Bagheri



Marco
Giuliani



Paul
de Weerd



Jessy
Vetter



Florian
Obser



Anand
Buddhdev

Secondary DNS with Neustar



- Secondary DNS for RIPE NCC's important zones
 - DDoS mitigation
- Migration from Verisign completed: September 2019

CDS/CDNSKEY for reverse DNS



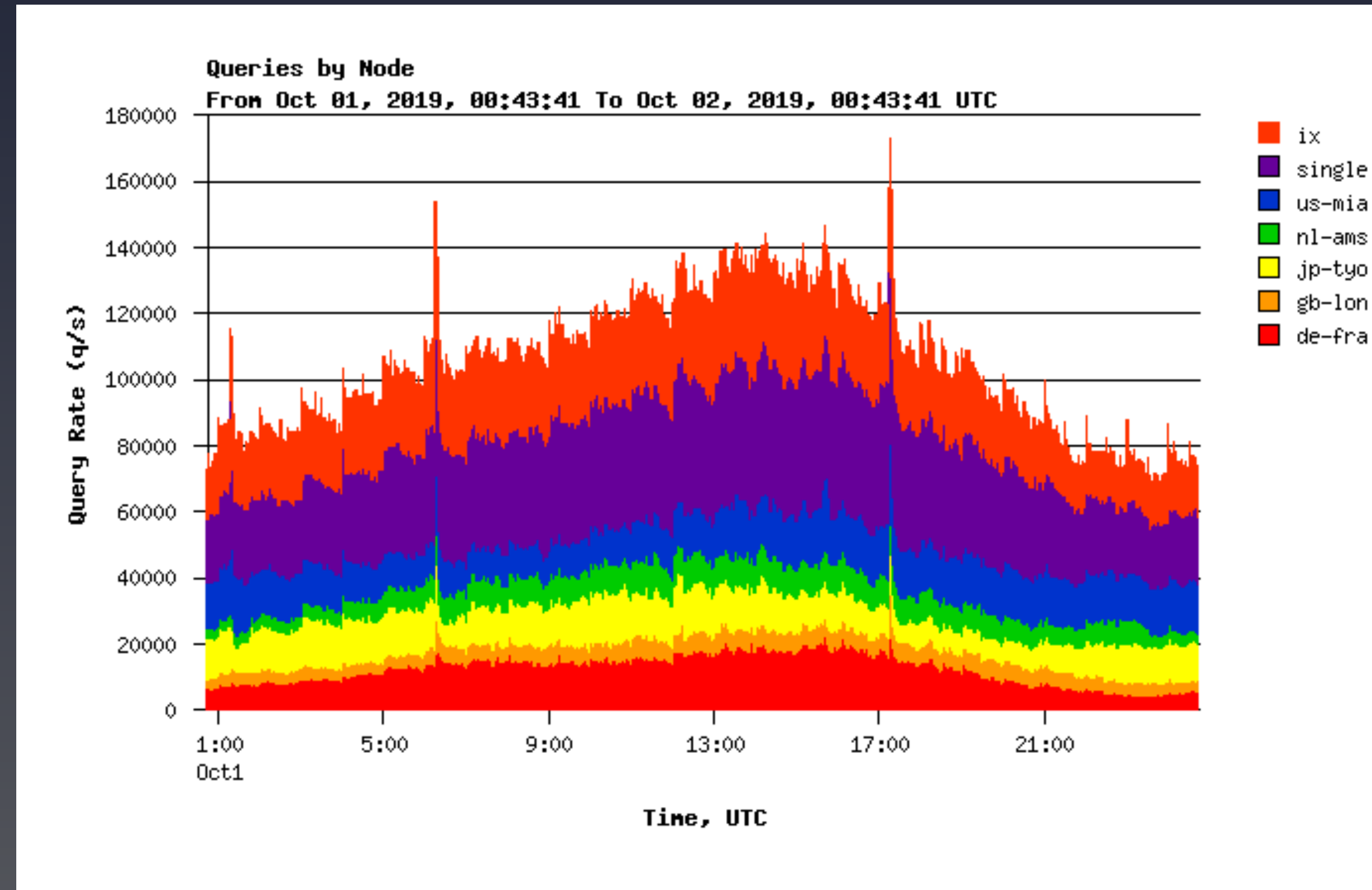
- RFC 8078
 - Automatic update of a signed child zone's DS record in the parent zone
 - Makes DNSSEC deployment easier
- Light-weight implementation this year
 - Only track child zones that have DS records in the parent
 - CDS/CDNSKEY responses must be DNSSEC-validated
 - Creating a chain of trust for the first time will still require a manual update

K-root

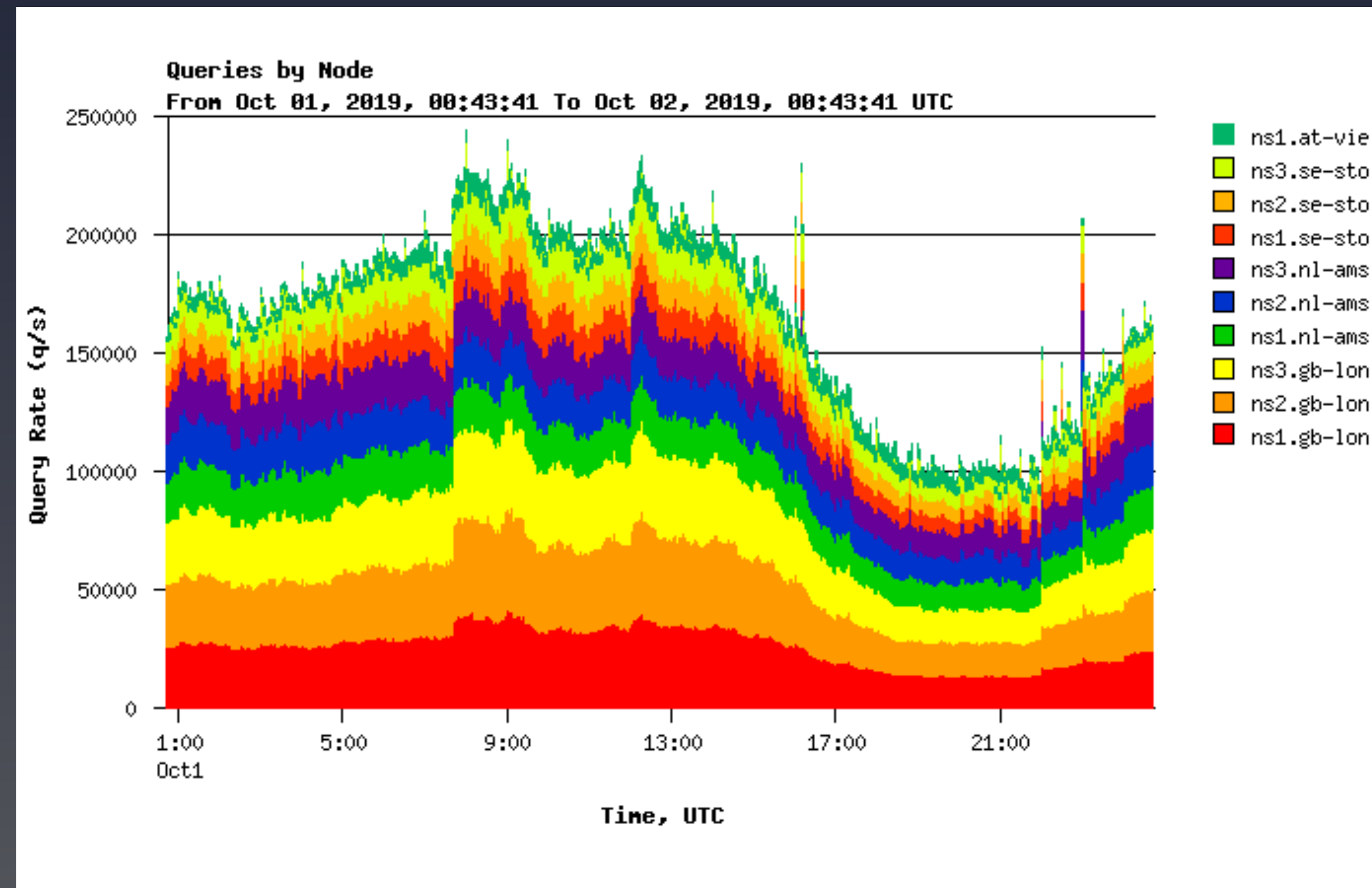


- Since RIPE 78 we added three new sites:
 - Beijing, China (2500 q/s serving China)
 - Berlin, Germany (250 q/s serving Germany)
 - Salvador, Brazil (5000 q/s serving mostly South and Middle America)

A Day in the Life of K-root



A Day in the Life of AuthDNS





K-root vs AuthDNS

- K-root is present in 70 locations
 - Recently did a hardware refresh
 - Adding a hosted K-root node is routine
- AuthDNS is present in 4 locations
 - Focus on AuthDNS
 - Hardware refresh
 - Add more hosted nodes
 - No concrete timeline



Questions



fobser@ripe.net