

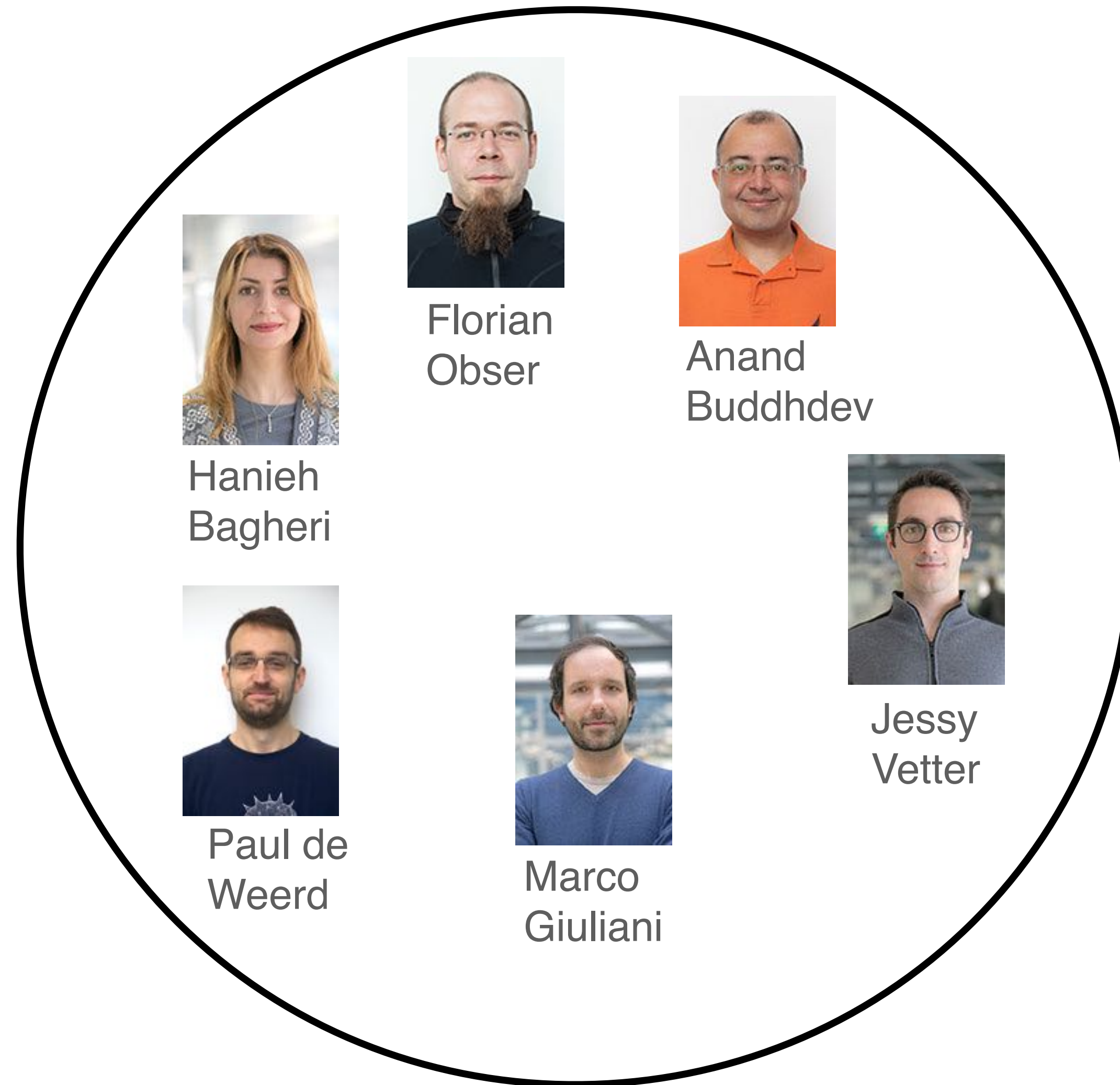


RIPE NCC
RIPE NETWORK COORDINATION CENTRE

RIPE NCC DNS Update

Anand Buddhdev | May 2019 | RIPE 78

DNS team



DNSSEC signer migration



- Secure64 signer appliance -> Knot DNS
- Achieved using a KSK roll-over
 - Import KSKs from each signer into the other
- During RIPE 77, we were in the middle of this KSK roll-over
 - Completed just after RIPE 77
- Currently on version 2.7.x (single-threaded signing)
 - Largest zone (about 50,000 RRsets) is signed in 23s
- Knot 2.8 has multi-threaded signing
 - Largest zone signed in 3s (16 signer threads)

Secondary DNS with Neustar

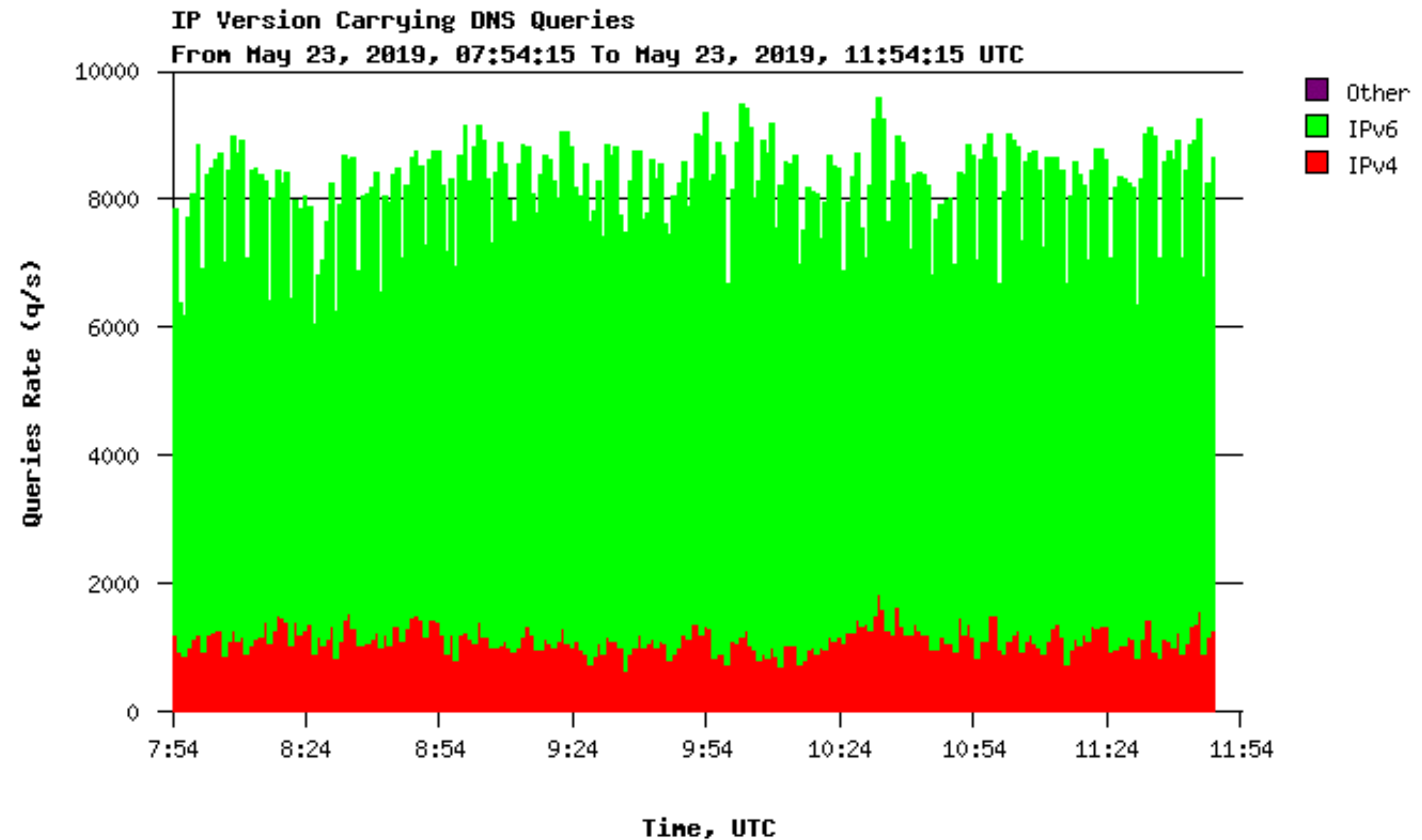


- Verisign provides secondary DNS for RIPE NCC's important zones
 - DDoS mitigation
- Verisign sold this business service to Neustar
- We are considering Neustar's service
 - We have until October 2019 to decide

K-root



- Since RIPE 77, we have added 4 new sites
 - Thimphu (supported by APNIC)
 - Madrid
 - Luxembourg
 - Taipei



CDS/CDNSKEY for reverse DNS



- RFC 8078
 - Automatic update of a signed child zone's DS record in parent zone
 - Makes DNSSEC deployment easier
- The community has requested RIPE NCC for this feature
- 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



Questions



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