Measurement and Analysis for Protocols
Research Group (maprg)
Prague, July 20, 2017

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• Today’s slides: https://datatracker.ietf.org/meeting/99/session/maprg/

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Jabber: xmpp:maprg@jabber.ietf.org?join
9:30 Intro & Overview, Project "Advertisements" (chairs)

9:35 Identifying IPv6-Reluctance (Mikael Abrahamsson, chairs)

9:45 Fingerprint-based detection of DNS hijacks using RIPE Atlas (Pawel Foremski)

10:05 Rate-limiting of IPv6 traceroutes is widespread: measurements and mitigations (Pablo Alvarez)

10:25 kIP: a Measured Approach to IPv6 Address Anonymization (David Plonka)

10:45 Measuring Latency Variation in the Internet (Toke Hoiland-Jorgensen)

11:05 Measuring YouTube over IPv6 (Vaibhav Bajpai)

11:25 Internet-Scale Deployment of QUIC (Jana Iyengar)
Questions

• Which operators deploy RPKI origin validation and filtering?
• How does deployment change over time?

Key contributions of the paper:

We evaluate existing methodology
Result: Methodology of uncontrolled, passive experiments cannot reliably differentiate RPKI filtering from some traffic engineering.

We introduce and deploy new methodology
Jointly control which routes we announce (BGP) and which routes are valid (RPKI).
Paper includes initial results, including ASes that confirmed they are filtering.
RIPE Atlas Daily Aggregates

- Public measurement data is always available via API
- Data **now also** available as daily aggregates
  - [https://ftp.ripe.net/ripe/atlas/data/](https://ftp.ripe.net/ripe/atlas/data/)
  - Data cycled out after ~30 days
- Also: ~33% of probes have IPv6
  - and, ~33% of measurements are of the v6 network
- Please grab data, and tell us if you find it useful

More:
[https://labs.ripe.net/Members/petros_gigis/announcing-daily-ripe-atlas-data-archives](https://labs.ripe.net/Members/petros_gigis/announcing-daily-ripe-atlas-data-archives)