

Whether to Synchronize the RPKI Data that is not Required by the Network

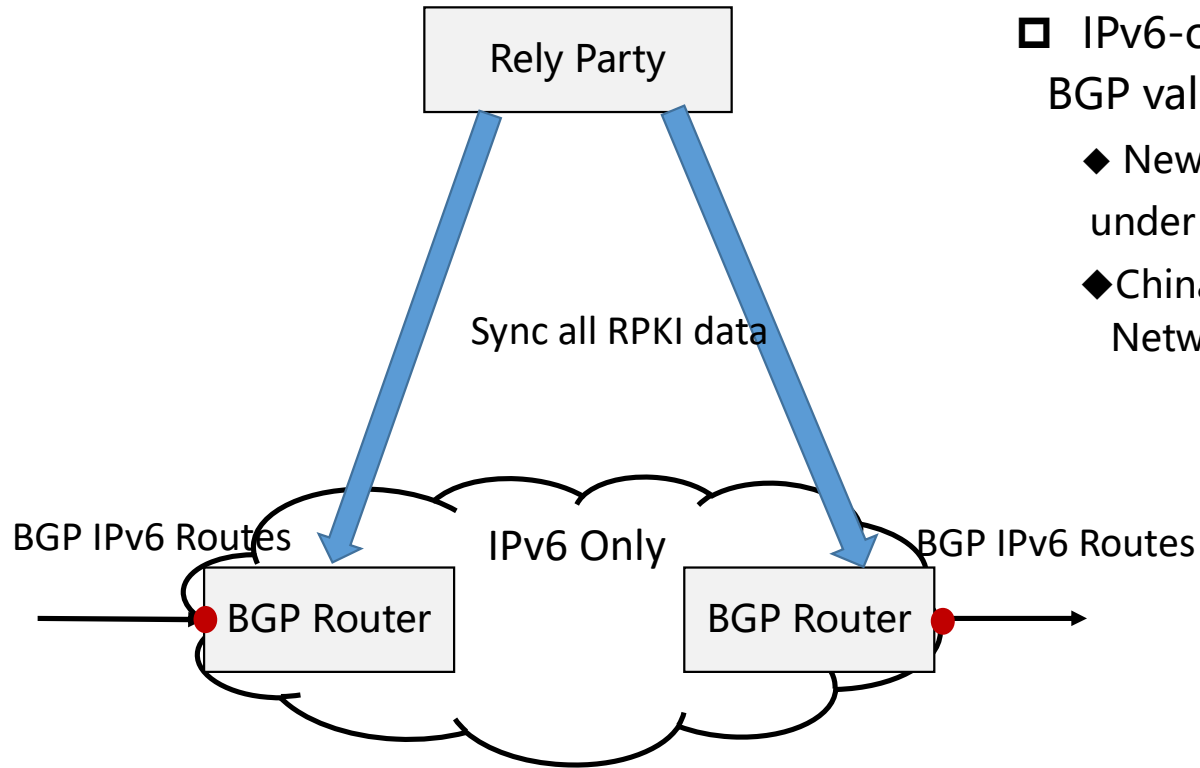
[draft-fu-sidrops-enhanced-slurm-filter-00](#)

[draft-geng-sidrops-rtr-selective-sync-02](#)

Yu Fu (China Unicom), **Nan Geng** (Huawei), **Shunwan Zhuang** (Huawei)

March. 2024

An Example: Only IPv6 Prefix Data are Required



- ❑ IPv6-only network is only interested in IPv6-related BGP validation.
 - ◆ New China Education and Research Network (named FITI) under construction will be an IPv6-only network.
 - ◆ China Unicom is considering to deploy IPv6-only Network in the future.

- ❑ When a network receives unnecessary RPKI data:
 - ◆ Waste of storage on routers.
 - ◆ Induce some unnecessary transmission overhead.
 - ◆ Not energy efficient.

Discussion

❑ RPKI data types (RTR PDU): IPv4 prefix, IPv6 prefix, router key, ASPA.

❑ Likely more RPKI data types in the future.

- Secured Routing Policy Specification Language (RPSL) [RFC7909]
- Signed Prefix Lists [I-D.ietf-sidrops-rpki-prefixlist]
- Autonomous Systems Cones [I-D.ietf-grow-rpki-as-cones]
- Mapping Origin Authorizations (MOAs) [I-D.xie-sidrops-moa-profile]
- Signed SAVNET-Peering Information (SiSPI) [I-D.chen-sidrops-sispi]
- Path validation with RPKI [I-D.van-beijnum-sidrops-pathrpki]
- Signed Groupings of Autonomous System Numbers [I-D.spaghetti-sidrops-rpki-asgroup]

❑ Optional solutions to help operators select RPKI data synchronized to it:

- a) Extend SLURM to support filtering data by RPKI data type
 - ◆ Looks simpler than the latter
- B) Extend RTR to support subscription

- Does a network require all types of RPKI data?
- Whether to synchronize the RPKI data that is not required by the network?

Thanks!