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

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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.

- 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?

- 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]
Thanks!