



AMS-IX experience with RPKI prefix validation

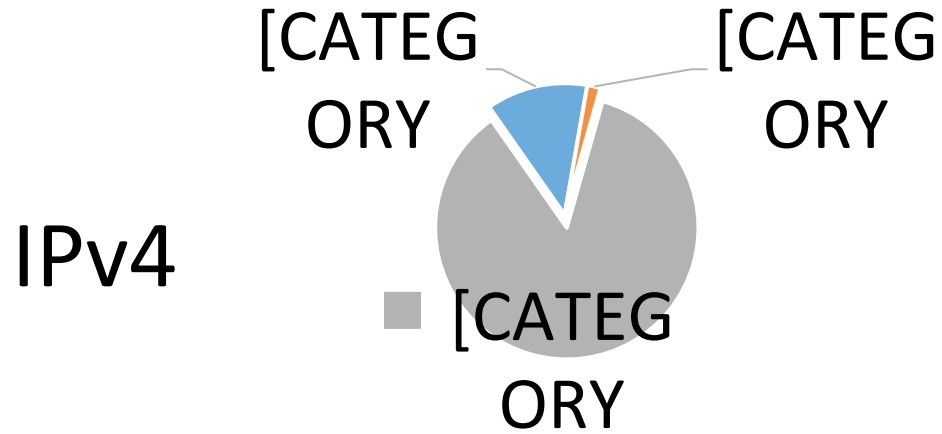
Optional on AMS-IX Route Servers

Use of RPKI at AMS-IX

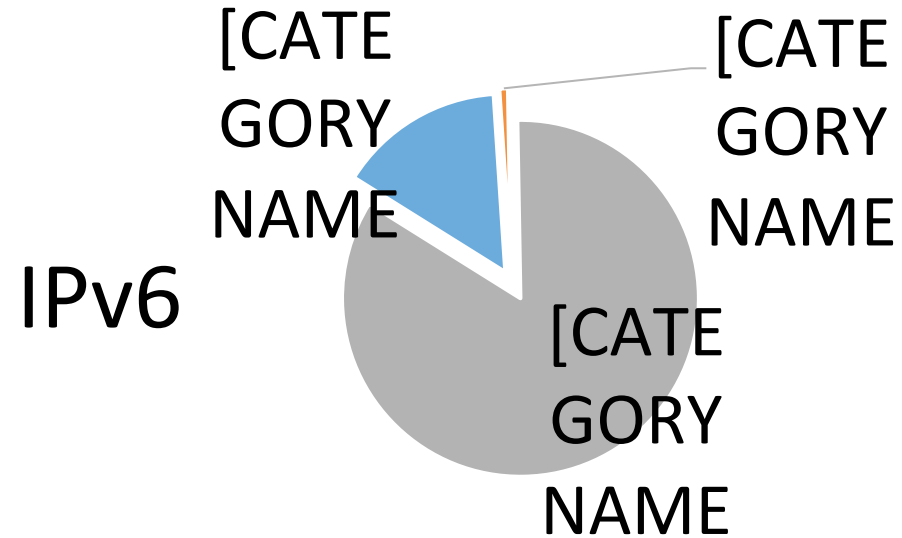
- Provide means to distinguish acceptance of prefixes based on origin validation
 - Prefixes advertised to route server are tagged with community depending on validation
 - Auth: VALID, INVALID or UNKNOWN
- Route server peer can, based on community, decide on acceptance of the prefix
 - Have the route server drop on advertisement
 - Accept but process internally

Operational Experience

Active peers: 101



Active peers: 69



On the default route servers

- 650 IPv4
- 560 Ipv6

For 101 IPv4 peers:

- 53 peers prefer to receive all prefixes, but tagged according to ROA status and/or IRR route object existence
- 13 peers prefer to not receive prefixes marked as ROA invalid and/or not registered as an IRR route object
- 0 peers prefer to not receive prefixes marked as ROA invalid
- Similar for IPv6

Why that many RPKI invalids?

- **More specifics without ROA** **55%**
- **Assignment to downstream** **35%**
- **Company acquisitions / mergers** **5%**
- **IGP leakage** **5%**
- **Hijack** **0%**

Trust Anchors

Enabled	Trust anchor	Processed Items	Expires in	Last updated	Next update in	Update all
<input checked="" type="checkbox"/>	APNIC from AFRINIC RPKI Root	12 0 0	3 years and 7 months	41 seconds ago	9 minutes	Update
<input checked="" type="checkbox"/>	APNIC from ARIN RPKI Root	117 0 0	4 years and 11 months	9 minutes ago	27 seconds	Update

Validated ROAs from **APNIC from AFRINIC RPKI Root**, **APNIC from ARIN RPKI Root**, **APNIC from IANA RPKI Root**, **APNIC from LACNIC RPKI Root**, **APNIC from RIPE RPKI Root**, **ARIN RPKI Root**, **AfrinIC RPKI Root**, **LACNIC RPKI Root**, **RIPE NCC RPKI Root**.



Questions ?