ASN Setup Checklist

LIR.SERVICES

ASN _____ **AS-SET** _____ **Date** _____

Steps

- ☐ **Before you start**
  An ASN, an IP block to announce, a RIPE account that can update their objects, and an upstream provider that offers BGP.
- ☐ **1. IP transit**
  A BGP session agreed with at least one upstream provider.
- ☐ **2. PeeringDB**
  Profile created and linked to your ASN. Prefix limit set (we suggest 25 to start).
- ☐ **3. IRR route objects**
  A route (IPv4) or route6 (IPv6) object for every prefix, with a descr.
- ☐ **4. RPKI**
  A ROA for every prefix, maximum length equal to the announced length. Leased space: your provider creates it.
- ☐ **5. AS-SET (optional)**
  A hierarchical AS-SET, such as AS64500:AS-ALL, with your ASN as a member.
- ☐ **6. Routing policy**
  The aut-num has import and export, and mp-import and mp-export for IPv6. Use the AS-SET in the export lines if you made one.
- ☐ **7. Reverse DNS**
  A domain object for each block, with at least two name servers in different subnets.
- ☐ **8. Upstream providers**
  The questions on the right asked, answers written down, AS-SET sent to them.
- ☐ **9. Validate**
  Announcements seen in RIPE Stat, the Hurricane Electric BGP Toolkit, PeeringDB and a looking glass. Allow hours or days.

Questions for your upstream providers

1. Do you build BGP filters automatically or manually?
2. If automatically, how often do you update them?
3. If manually, can you build them from the AS-SET, or do you need a list of prefixes? How often do you make changes?
4. Do you enforce a prefix limit? What is ours, and can it update from PeeringDB?

Upstream providers

Name	ASN	Filters	Updated	Based on	Limit

Filters: automatic or manual. Based on: AS-SET or prefix list.

Notes

Routes

Prefix	route or route6	ROA	Reverse DNS

Tick each box when the object exists. Guide: lir.services/blog/asn-setup/