

You signed your ASPA.

Now what?

What can possibly go wrong

Misconfiguration

Misconfiguration

by myself

Misconfiguration

by myself
or by somebody else

Three places to configure

Three places to configure ASPA record

Three places to configure

ASPA record

Roles / OTC (RFC 9234)

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Local BGP Policy

Three places to configure

ASPA record

Roles / OTC (RFC 9234)

Local BGP Policy

IRR AS-SETs

Configure my routing.

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Make no mistakes.

Safe by Design



Signing is easier than verifying

The Missing Provider

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AS is my provider if
allowed to send my routes
to others than their customers.

Catching the configuration error locally

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- Run ASPA Verification after prepending my and neighbor's ASN.
 - Needs knowledge of neighbor policies.
 - No check for peering.



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(fix expected to be merged into 2.20.0 and 3.4.0)
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None of these can be used before routes are actually propagated.

The Forgotten Backup Provider

Invalids Are Not Equal

- Invalid from a customer? Reject with an alert.

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- Invalid from a peer? Reject with an alert?
- Invalid from a transit? Reject or depreference?

Rejecting Downstream-Invalid ASPA

»Network Q is unreachable, can you fix it?«

»No, we don't have valid routes to them.«

»But it works with provider R.«

There is no obvious solution for fixing this.

Rejecting Downstream-Invalid ASPA

Maria's current recommendation for scarce ASPA deployment.

- **Set up BGP Roles, ensure your exports are clean.**
- Accept downstream invalids but depreferenced.
- **Alert on invalids** and try to resolve them quickly.
- Have manual override mechanisms on hand.
- **Request your transits to deploy ASPA Verification.**

Transforming networks



Abandoned Configuration



AI/LLM Disclaimer, Credits

Typed by Maria's ten fingers.

Various local LLM models were asked for reviews.

Photos: © Maria Matejka, 2026.

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Questions, Explanations, Discussion